

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

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JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

01/26/2012

Larry Bates
Assistant District Attorney, Suffolk County

Dear ADA Bates,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED].
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED].

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan
Chemist
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6622

Khan, Annie (DPH)

From: Khan, Annie (DPH)
Sent: Thursday, January 12, 2012 12:12 PM
To: Bates, Larry (SUF); Corbett, Kate (DPH)
Subject: RE: Lab Notes and Summons BMC Docket Number [REDACTED] case

Hi Larry,

Hope this email finds you well.

Lab #

Upon reviewing this case, the Lab#s may be incorrect.

At your convenience, could you please check if these are the correct Lab#s?

Sorry for the inconvenience.

Process of
elimination

Thanks.

ASD

Annie
Drug Analysis Lab
617-983-6622 (work)
617-983-6625 (fax)

From: Bates, Larry (SUF)
Sent: Wednesday, January 11, 2012 2:58 PM
To: Khan, Annie (DPH); Corbett, Kate (DPH)
Subject: Lab Notes and Summons BMC Docket Number [REDACTED] case

Greetings Once More

Attached please find a summons for your appearance on the above given case at BMC for Feb 15. Request is also made for you forward a copy of lab notes for case number [REDACTED] and should you not be able to attend the court date, please notify me. Lastly, thank you for your assistance.

Larry Bates

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry

University of Massachusetts, Boston, Ma, Bachelor of Science

Major: Biochemistry

Minor: Economics

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Writing of the Standard Operating Procedures (SOPs) and Protocols.

*Responsible for the Quality Control and Quality Assurance of analytical instruments, reagents and controls/standards.

*Maintenance and repairs of analytical instruments.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health.

*Notary Public.

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MBL Quality Control and Quality Assurance Department for the Food and Drug Administration.

*Method Development for creating new techniques for the QC Dept. and FDA.

*Writing, revising and reviewing the Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Courses:

Department of Justice – Forensics Professionals

Introduction to Forensic Drug Chemistry

Perspectives in Expert Testimony

Chemical Spot Test and Mechanism for Illicit Drugs

Evidence Analysis

Forensic Mass Spectrometry

Ethics in Forensic Science

Forensic Science 101: An Introduction

Transition to Leadership

Fundamentals of Forensic Questioned Documents

Fundamentals of Forensic Toxicology

Additional Trainings:

Good Laboratory Practice/Good Manufacturing Practice (GLP/GMP) training with Massachusetts Biologic Laboratory.

Quality Control/Quality Assurance (QC/QA) training according to FDA Codes and Regulations.

Gas Chromatography (GC) and Gas Chromatography/Mass Spectrometry (GC/MS) trainings with Agilent Technologies and Restek.

High Power Liquid Chromatography (HPLC) and HPLC/MS/MS trainings with Waters Cooperation.

Fourier Transform Infrared Spectroscopy (FTIR) training with Spectros and Spectrum One.

Ultraviolet-Visible Spectroscopy (UV-Vis) training with Agilent Technologies and Beckman.

Total Organic Carbon Analyzer (TOC) training with MBL and Sievers.

Associations:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 – August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units



DRUG RECEIPT

CC # XXXXXXXXXX
BOOK # 67
PAGE # 6
DESTRUCTION #

District/Unit D-4 DCU

Name & Rank of Arresting Officer Sgt. Det. Keenan ID# 10652

To be completed by ECU personnel only

Name and Rank of Submitting Officer Sybil White ID# 11069

Received by _____ Date _____ 8-3-11

ECU Control #

No. [REDACTED] Date Analyzed: 2/10/11
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]
Amount: Subst: SUB
No. Cont: 2 Cont: pb
Date Rec'd: 02/03/2011 No. Analyzed: 1
Gross Wt.: 4.36 Net Weight: 0.16
Tests: 6 AS
• 20AC
Prelim: cocaine (R) Findings: Cocaine

No. [REDACTED] Date Analyzed: 03-26-11
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]
Amount: 40.0 Subst: TAB
No. Cont: 1 Cont: pb
Date Rec'd: 02/03/2011 No. Analyzed:
Gross Wt.: 20.29 Net Weight:
Tests: 1 A TL AS
Prelim: E Findings: galbenin

No. [REDACTED] Date Analyzed: 2/16/11
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]
Amount: Subst: SUB
No. Cont: 46 Cont: gb
Date Rec'd: 02/03/2011 No. Analyzed: 5
Gross Wt.: 57.89 Net Weight: 0.86
Tests: 25 AS
• 10KAC
Prelim: Heroin Findings: Heroin

DRUG POWDER ANALYSIS FORM

SAMPLE # XXXXXXXXXX AGENCY Boston ANALYST ADJ

No. of samples tested: _____ Evidence Wt: _____

PHYSICAL DESCRIPTION: Gross Wt (2): 0.3721

Off white chunky substance

17 2 PBS

Gross Wt (1): 0.2126

Pkg. Wt: _____

Net Wt: 0.1640

PRELIMINARY TESTS

Spot Tests

Cobalt Thiocyanate (→) +

Marquis ~

Froehde's ~

Mecke's ~

Microcrystalline Tests

Gold Chloride +

TLTA (→) +

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS COCAINE

DATE 2-8-11

GC/MS CONFIRMATORY TEST

RESULTS COCAINE

MS
OPERATOR KAC

DATE 2-10-11

DRUG POWDER ANALYSIS FORM

SAMPLE # XXXXXXXXXX AGENCY BOSTON ANALYST ADS

No. of samples tested: _____ Evidence Wt: _____

PHYSICAL DESCRIPTION: Gross Wt (): _____

40 white oval tablet

Gross Wt (): _____

11 120

Pkg. Wt: _____

Net Wt: 51.2288

84444

800

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate ()

Marquis _____

Froehde's _____

Mecke's _____

Microcrystalline Tests

Gold
Chloride _____

TLTA ()

OTHER TESTS

mineral oil

PRELIMINARY TEST RESULTS

RESULTS negative

DATE 3-26-11

GC/MS CONFIRMATORY TEST

RESULTS _____

MS
OPERATOR _____

DATE _____

Drug Information

DRUG NAME: GABAPENTIN

INGREDIENTS: GABAPENTIN -- 800 MG

Color: White

Shape: Oval

Imprint: 4444 The tablet is debossed with a hourglass logo and 4444 on one side and 800 on the reverse side., Hourglass 4444 800 The tablet is debossed with a hourglass logo and 4444 on one side and 800 on the reverse side., 800

Form: Oral Tablet

Available-Container-Size: Bottle of 100 , Bottle of 500 , Strip of 100 , Bottle of 1000

AAPCC Code: 077730 - Other Types of Anticonvulsant (Excluding Barbiturates)

NDC: 0093-4444-01

0093-4444-05

0172-4444-60

0172-4444-70

0172-4444-10

Excipients: Lactose (Monohydrate) ; Cellulose, Microcrystalline ; Polyethylene Glycol

Regulatory Status: RX

Availability: United States

Product ID: 6738350

Contact: Teva Pharmaceuticals

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DRUG POWDER ANALYSIS FORM

SAMPLE # XXXXXXXXXX AGENCY Boston ANALYST ASN

No. of samples tested: 5 Evidence Wt:

PHYSICAL DESCRIPTION: Gross Wt (4S): 9.7000

Beige powdered substance
in 46 gvs

Gross Wt (5): 1.0902

Pkg. Wt:

Net Wt:

1 g empty → not weighed.

PRELIMINARY TESTS

Spot Tests

Cobalt

Thiocyanate (+)

Marquis +

Froehde's +

Mecke's +

Microcrystalline Tests

Gold

Chloride

TLTA ()

OTHER TESTS

SGC +

PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 2-08-11

GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS
OPERATOR ICAAC

DATE 2-16-11

Sample #:

samples tested: 5

#	Gross Weight	Packet Weight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
1	0.2187	0.1957	0.0180	26			
2	0.2143	0.2007	0.0136	27			
3	0.2164	0.1989	0.0175	28			
4	0.2311	0.2021	0.0290	29			
5	0.2227	0.2063	0.0164	30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

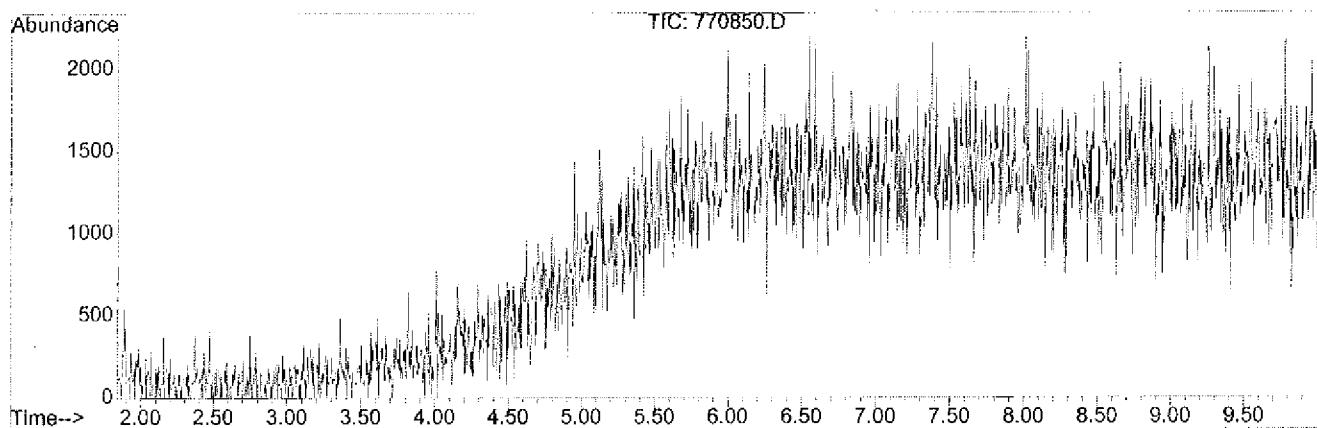
Calculations:

$$\text{Est Net wt} = 0.0945 / 5 = 0.0189(46)$$
$$= 0.8694$$

✓ KHC
1/25/12

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770850.D
Operator : SLD
Date Acquired : 9 Feb 2011 21:22
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



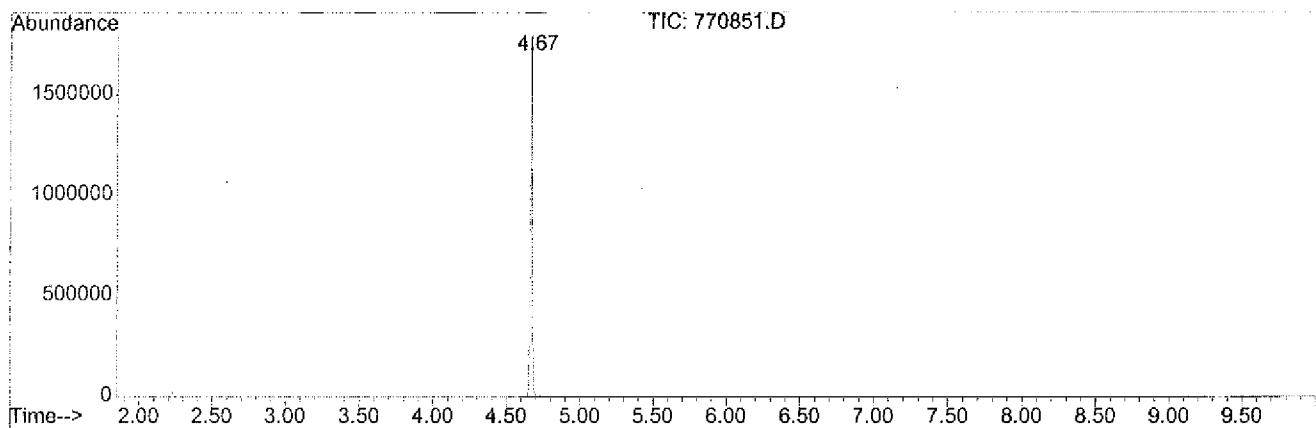
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770851.D
Operator : SLD
Date Acquired : 9 Feb 2011 21:35
Sample Name : COCAINE STD
Submitted by :
Vial Number : 51
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.666	1636731	100.00	100.00

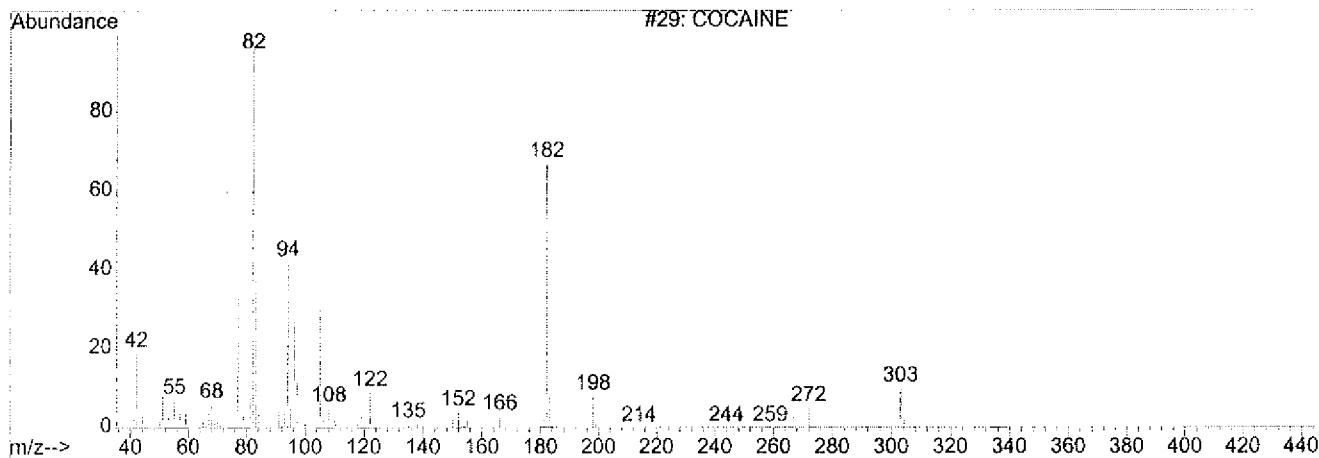
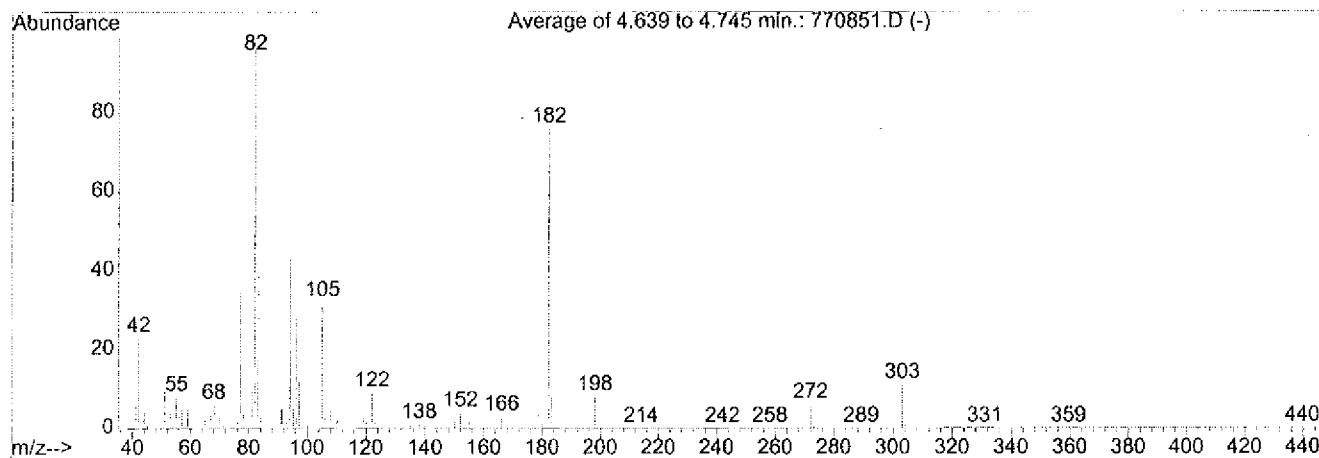
Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770851.D
Operator : SLD
Date Acquired : 9 Feb 2011 21:35
Sample Name : COCAINE STD
Submitted by :
Vial Number : 51
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

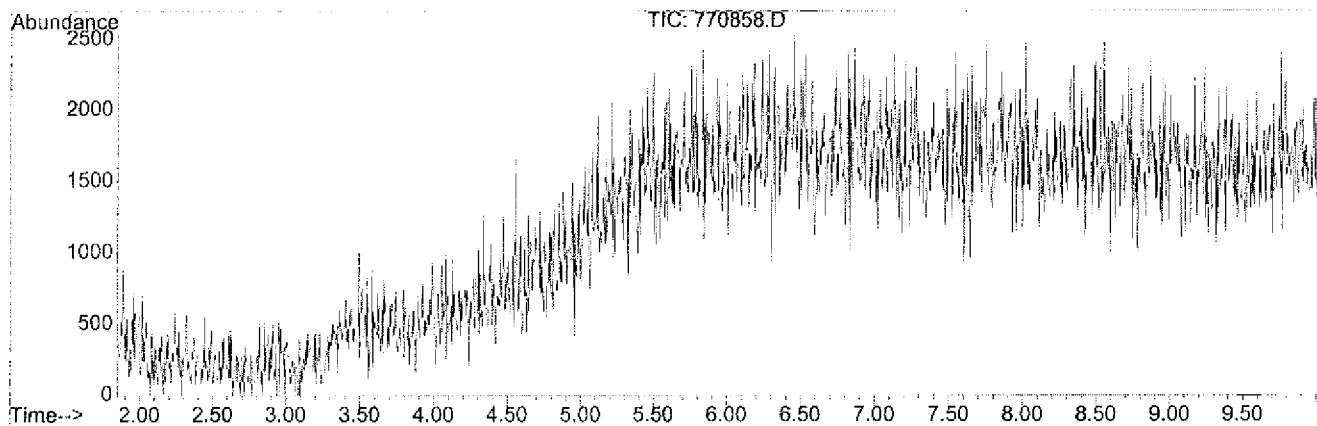
PK#	RT	Library/ID	CAS#	Qual
1	4.67	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770858.D
Operator : SLD
Date Acquired : 9 Feb 2011 23:12
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



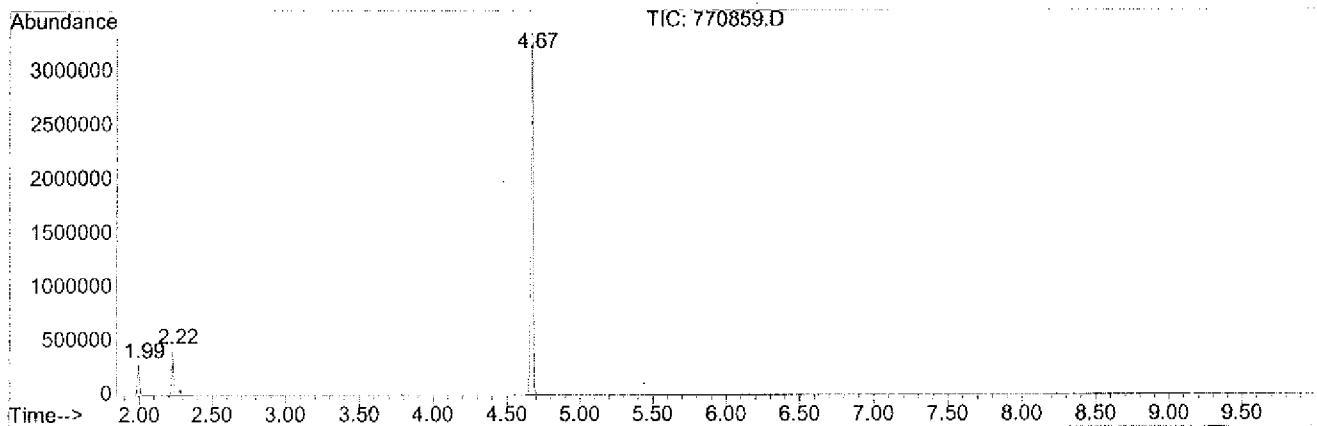
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770859.D
Operator : SLD
Date Acquired : 9 Feb 2011 23:26
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 59
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
1.992	295989	6.99	8.31
2.225	372895	8.81	10.46
4.668	3563840	84.20	100.00

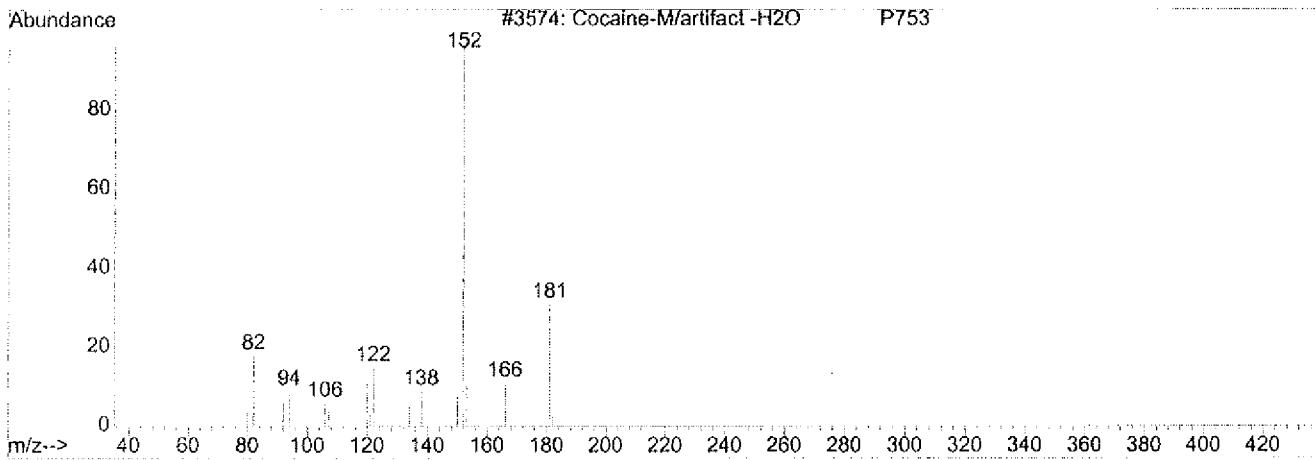
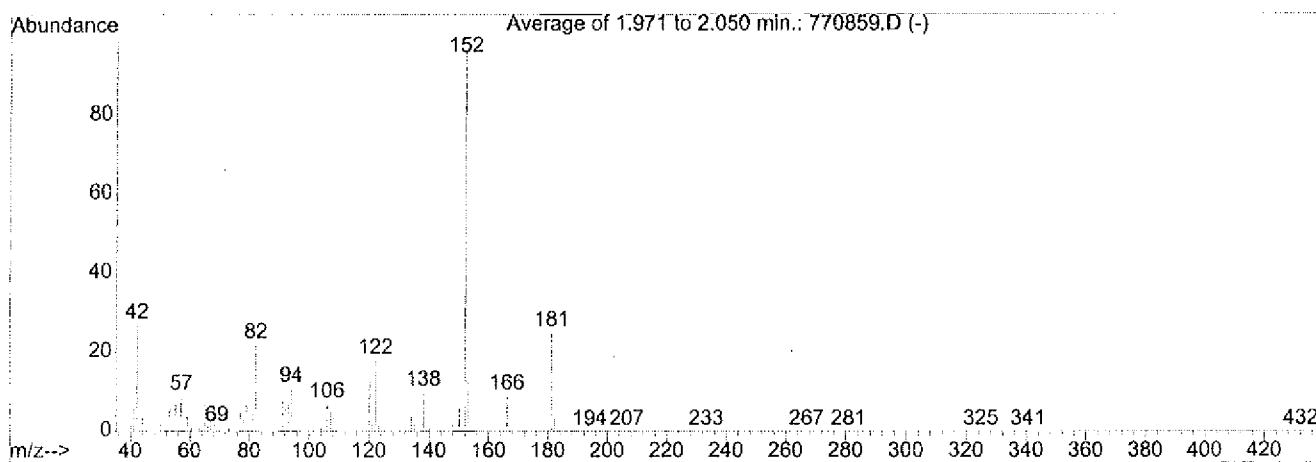
Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770859.D
Operator : SLD
Date Acquired : 9 Feb 2011 23:26
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 59
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	1.99	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M/artifact -H2O	000000-00-0	96
		MDA-M (desmethylenyl-methyl-) ME	@ 000000-00-0	37
		Metipranolol-M/artifact AC	000000-00-0	32



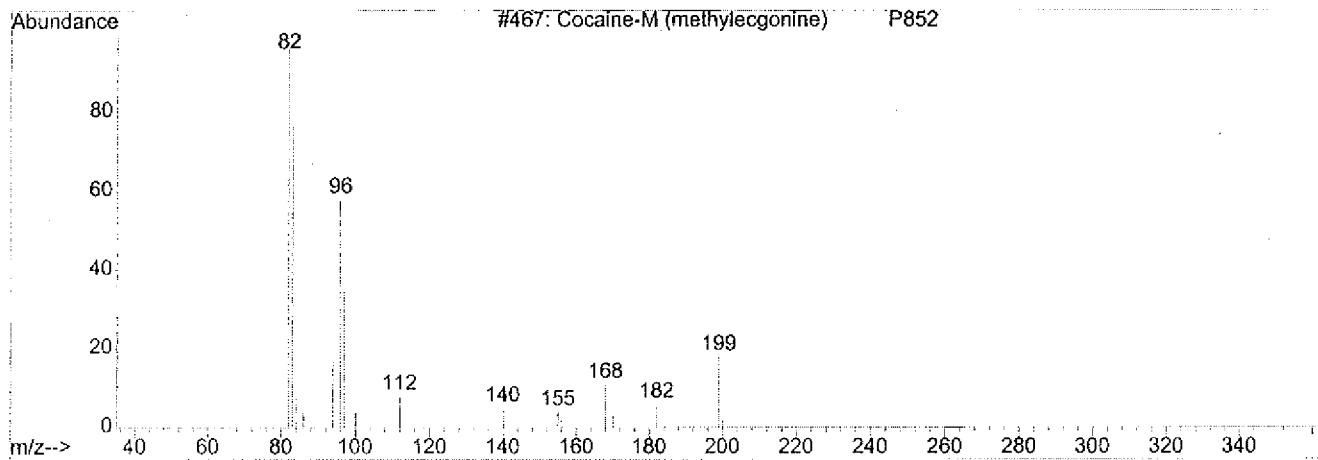
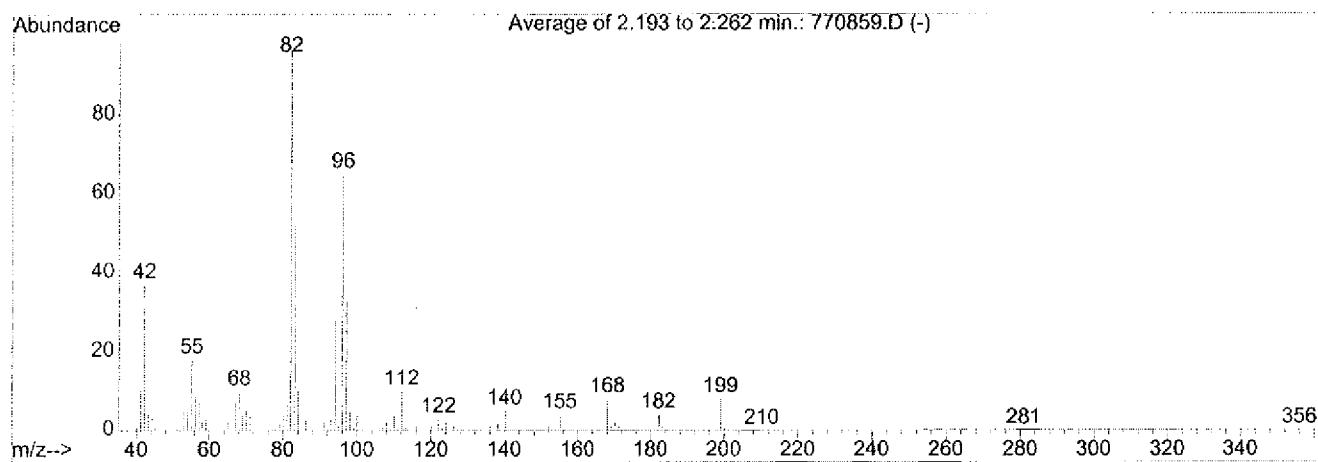
Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770859.D
Operator : SLD
Date Acquired : 9 Feb 2011 23:26
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 59
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
2	2.22	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M (methylecgonine)	007143-09-1	96
		Cocaine	000050-36-2	38
		Cocaine-M (methylecgonine) AC	000000-00-0	9

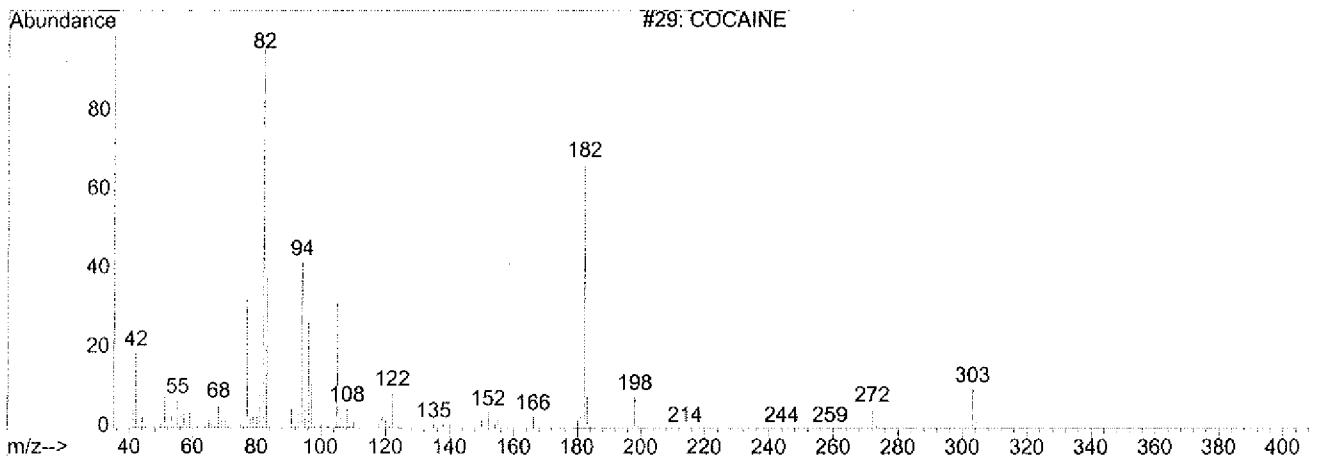
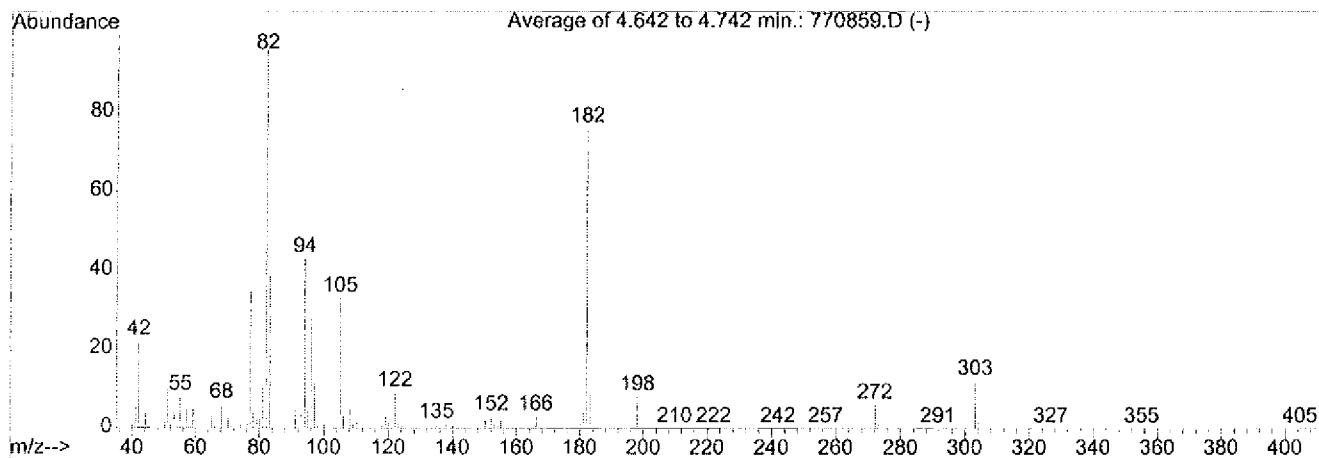


Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770859.D
Operator : SLD
Date Acquired : 9 Feb 2011 23:26
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 59
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

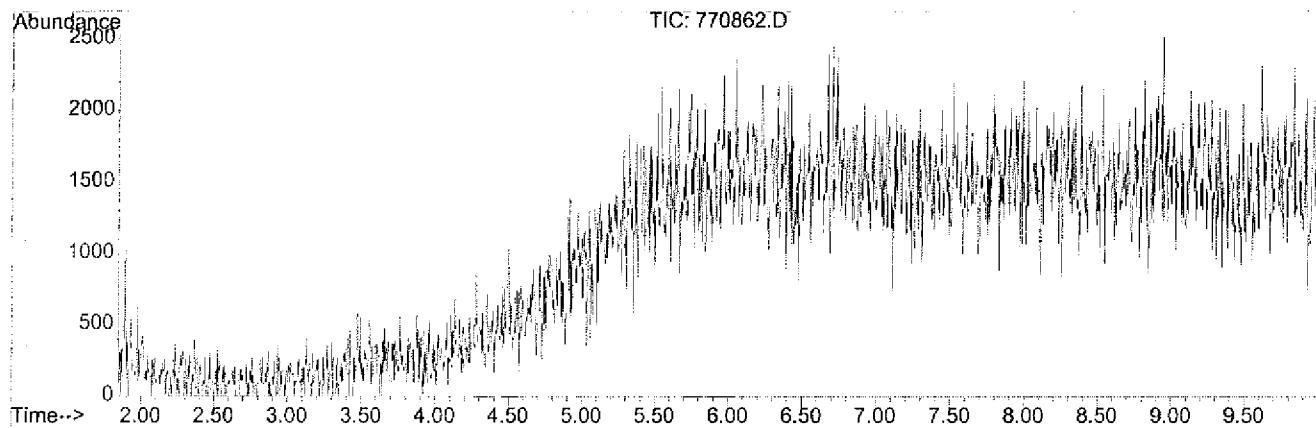
PK#	RT	Library/ID	CAS#	Qual
3	4.67	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770862.D
Operator : SLD
Date Acquired : 10 Feb 2011 00:07
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



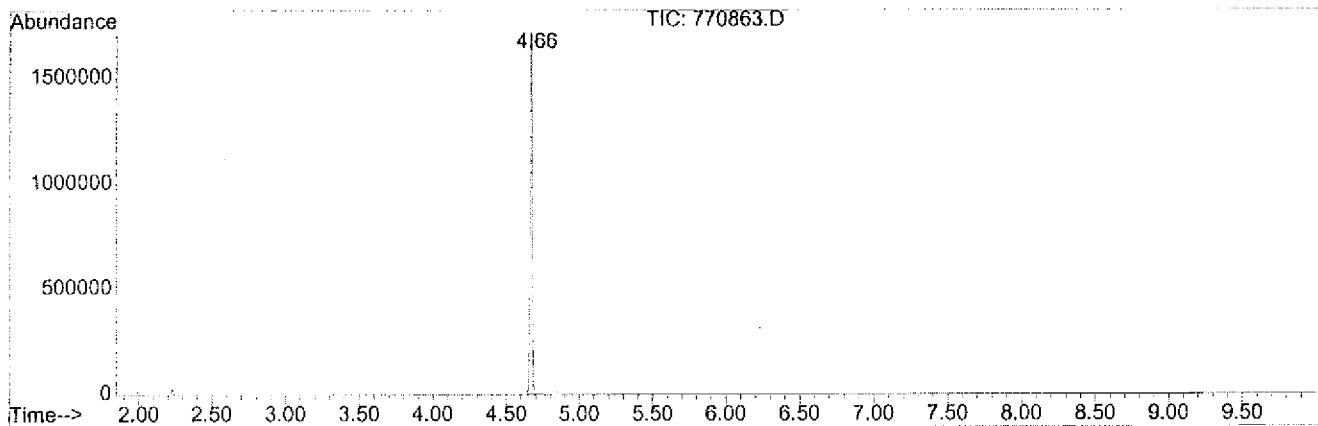
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770863.D
Operator : SLD
Date Acquired : 10 Feb 2011 00:21
Sample Name : COCAINE STD
Submitted by :
Vial Number : 51
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.663	1728398	100.00	100.00

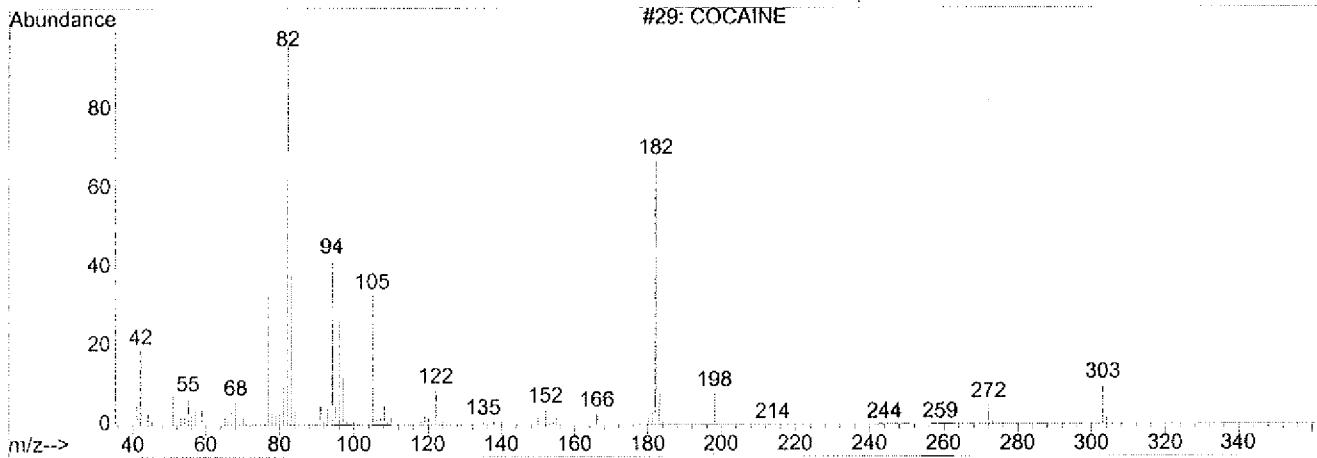
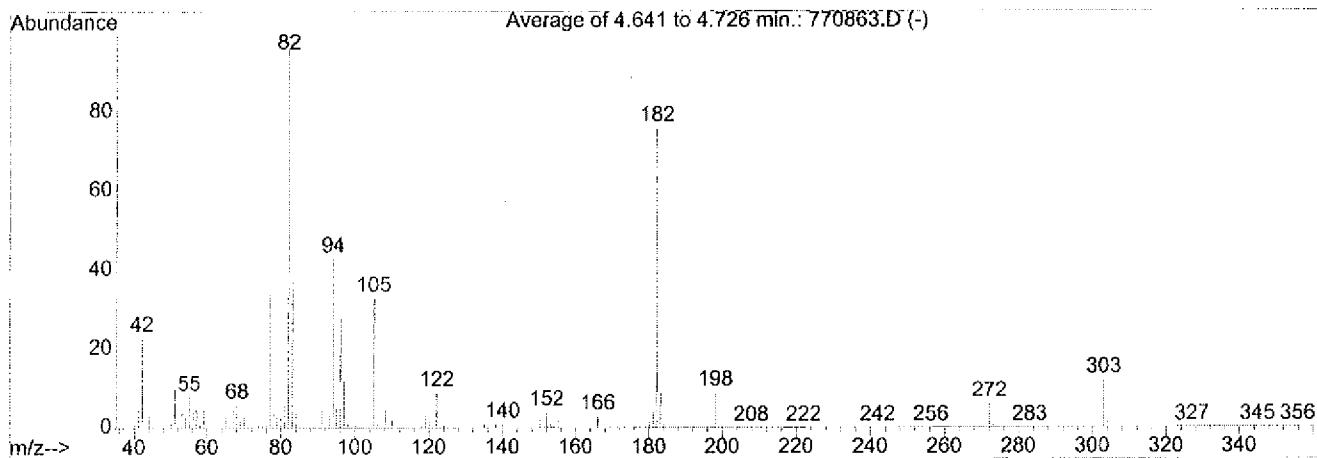
Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\02_09_11\770863.D
Operator : SLD
Date Acquired : 10 Feb 2011 00:21
Sample Name : COCAINE STD
Submitted by :
Vial Number : 51
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

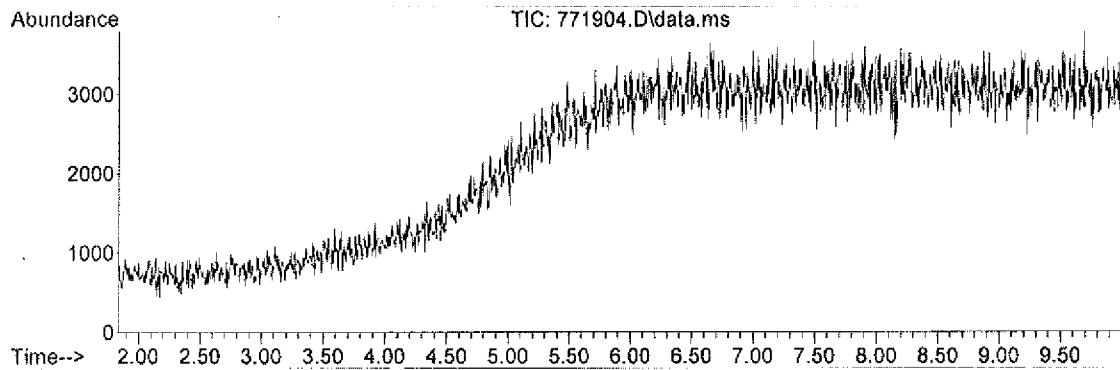
PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



✓KAC
1/25/12

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771904.D
Operator : KAC
Date Acquired : 15 Feb 2011 9:25
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

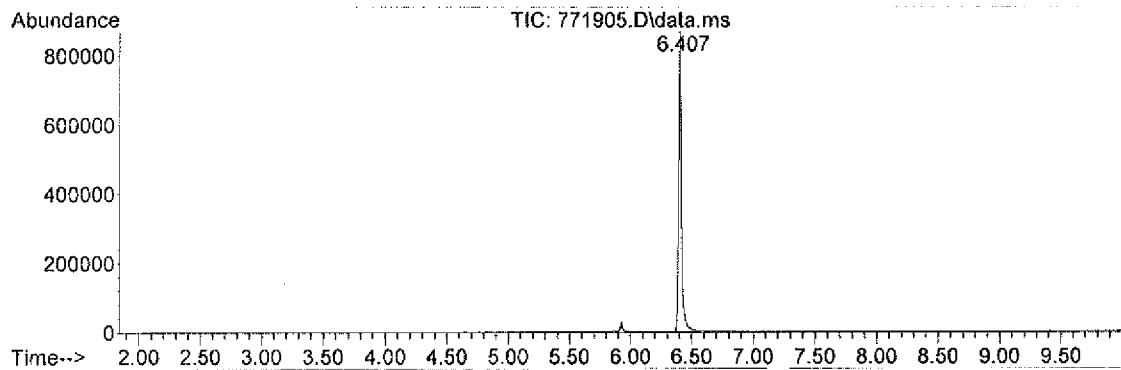


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771905.D
Operator : KAC
Date Acquired : 15 Feb 2011 9:38
Sample Name : HEROIN STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS.M
Integrator : RTE



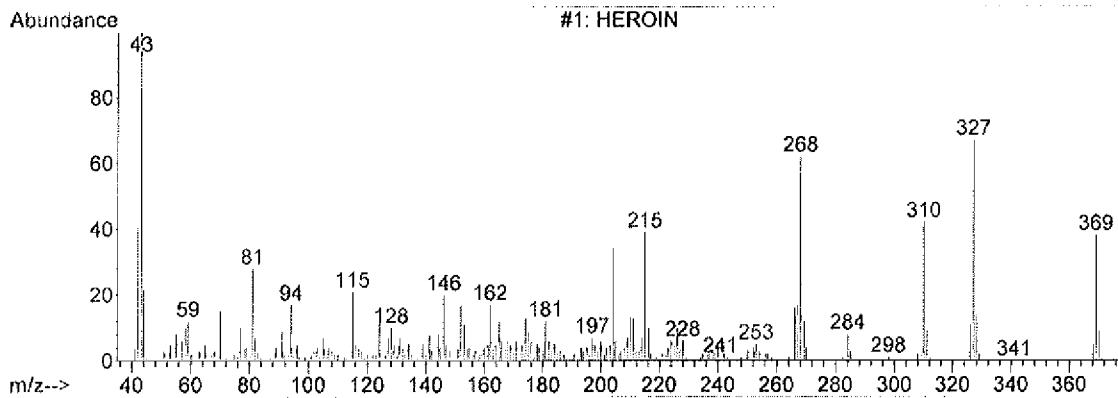
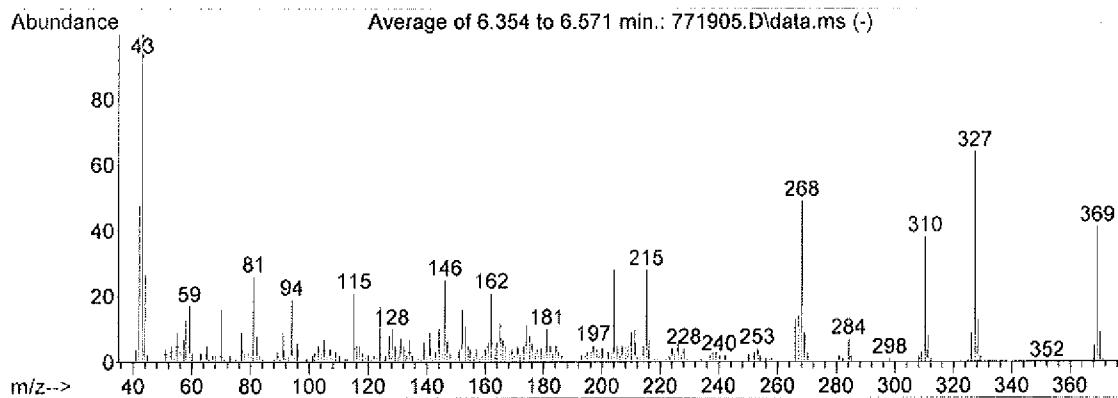
Ret. Time	Area	Area %	Ratio %
6.407	1376028	100.00	100.00

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771905.D
Operator : KAC
Date Acquired : 15 Feb 2011 9:38
Sample Name : HEROIN STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS.M
Integrator : RTE

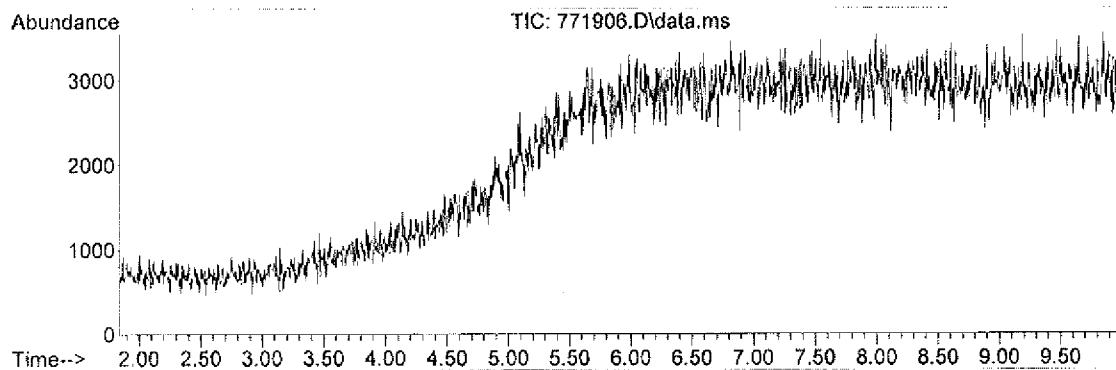
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.41	C:\Database\SLI.L HEROIN	000561-27-3	99



Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771906.D
Operator : KAC
Date Acquired : 15 Feb 2011 9:51
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

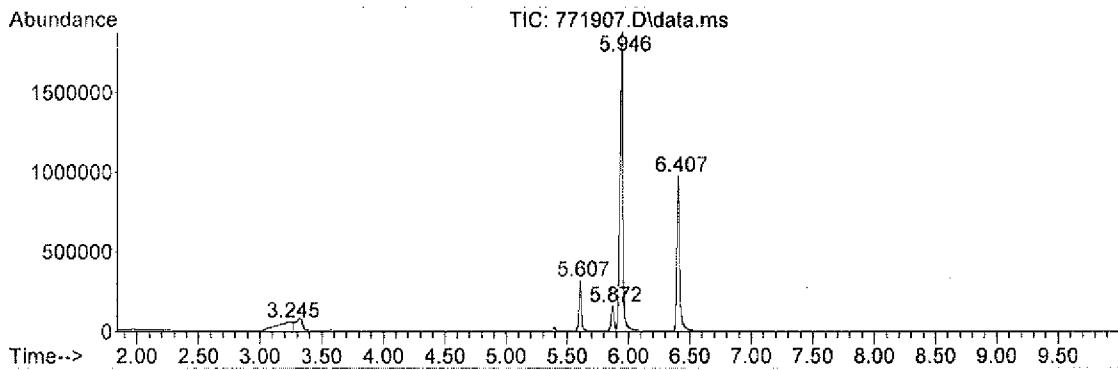


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771907.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 7
AcquisitionMeth: DRUGS.M
Integrator : RTE



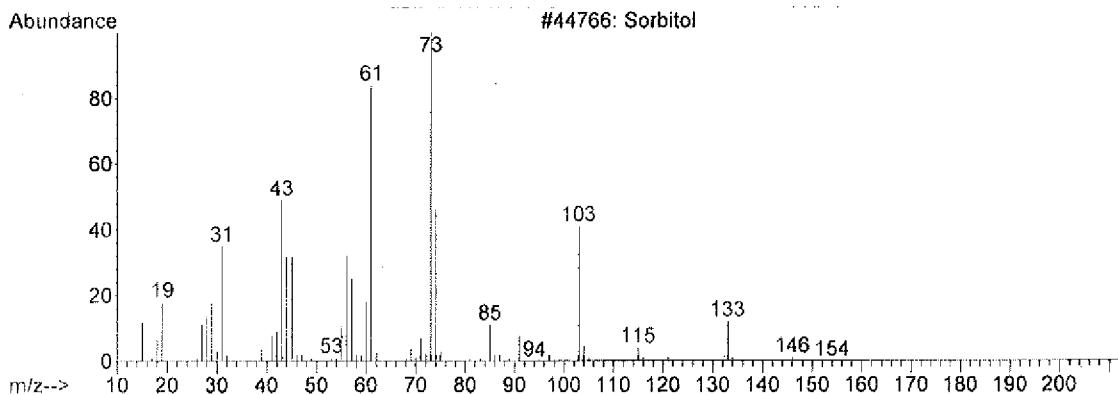
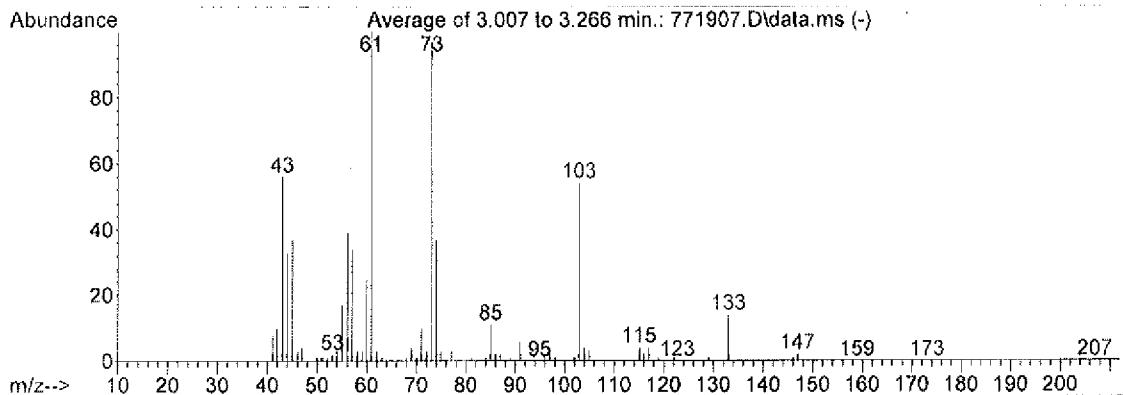
Ret. Time	Area	Area %	Ratio %
3.245	512102	8.71	16.45
5.607	440354	7.49	14.15
5.872	247462	4.21	7.95
5.946	3112744	52.91	100.00
6.407	1570135	26.69	50.44

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771907.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 7
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.25	C:\Database\NIST05a.L		
		Sorbitol	000050-70-4	87
		Sorbitol	000050-70-4	86
		Sorbitol	000050-70-4	80

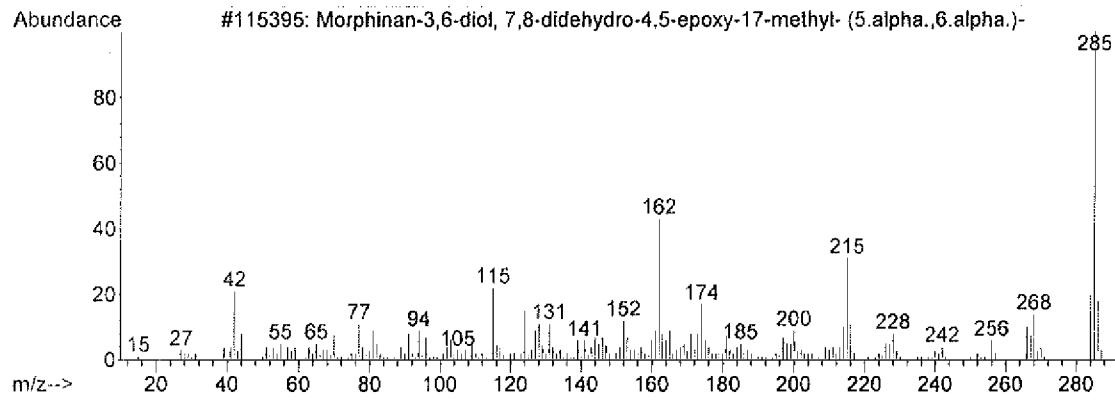
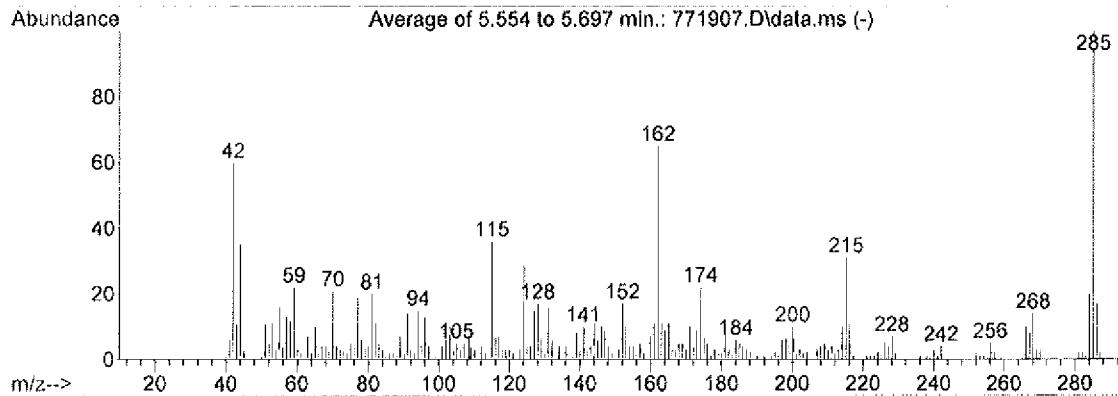


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771907.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 7
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

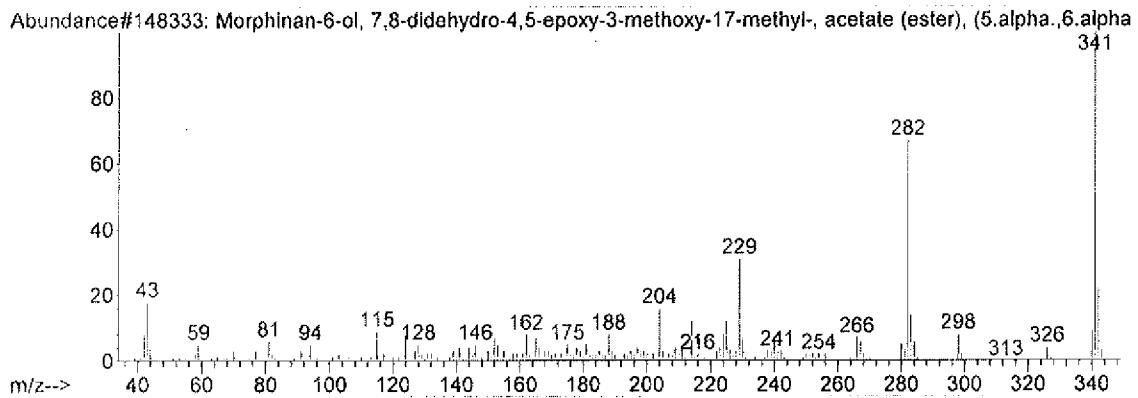
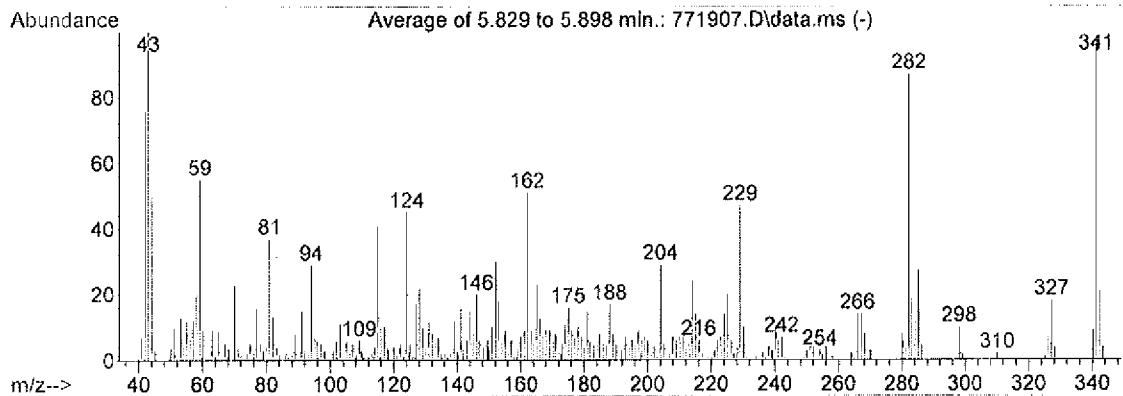


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771907.D
 Operator : KAC
 Date Acquired : 15 Feb 2011 10:03
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 7
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	97
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	97
		Morphin, 3-acetyl-	1000153-00-1	92

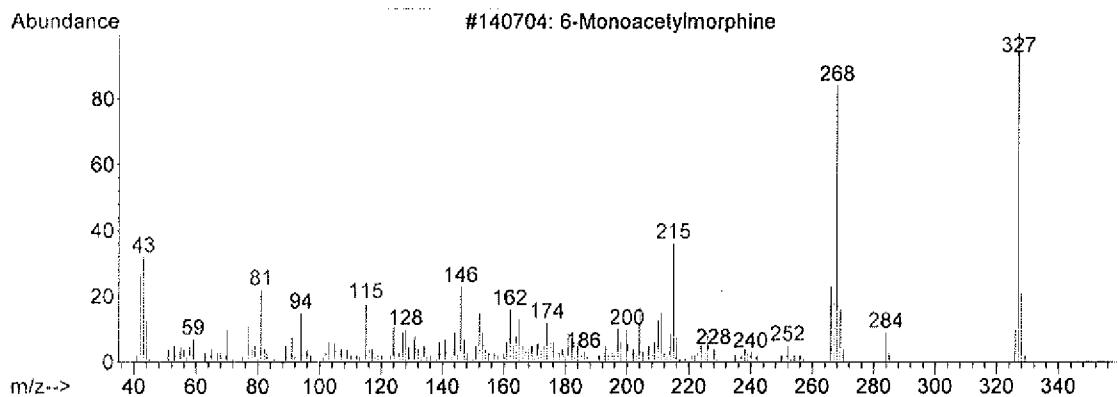
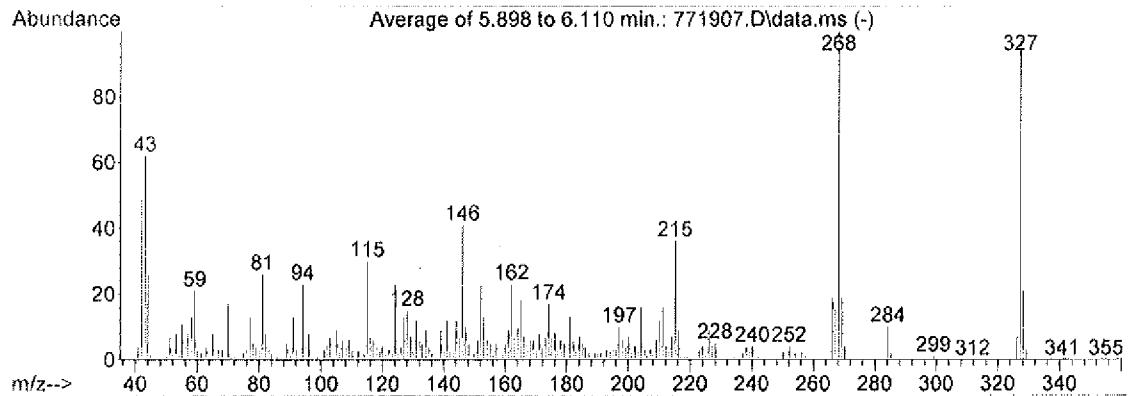


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771907.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 7
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

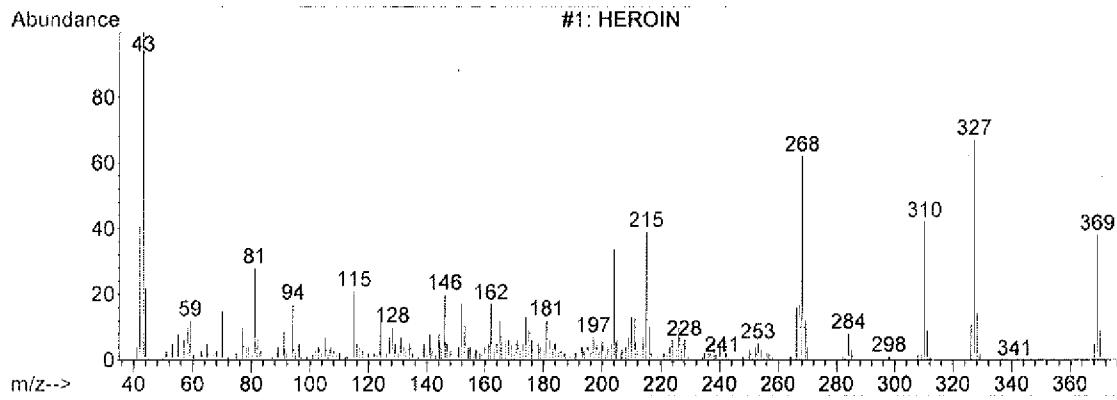
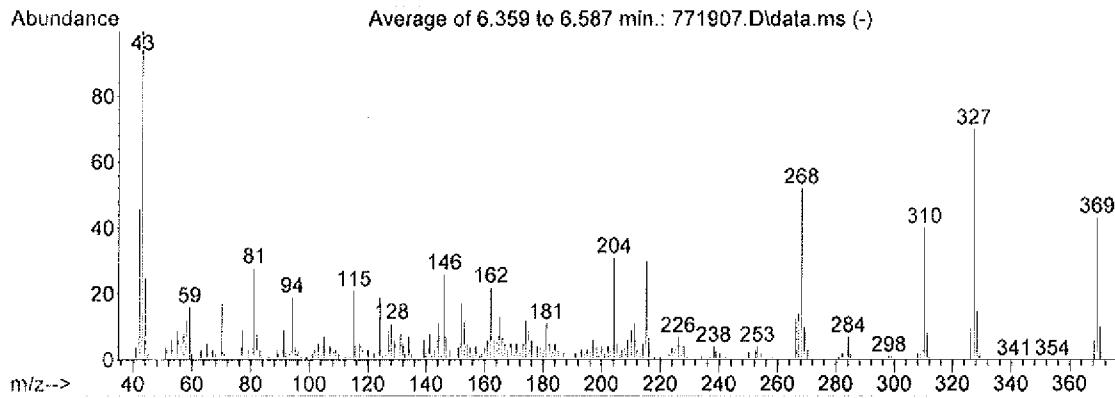


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771907.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 7
AcquisitionMeth: DRUGS.M
Integrator : RTE

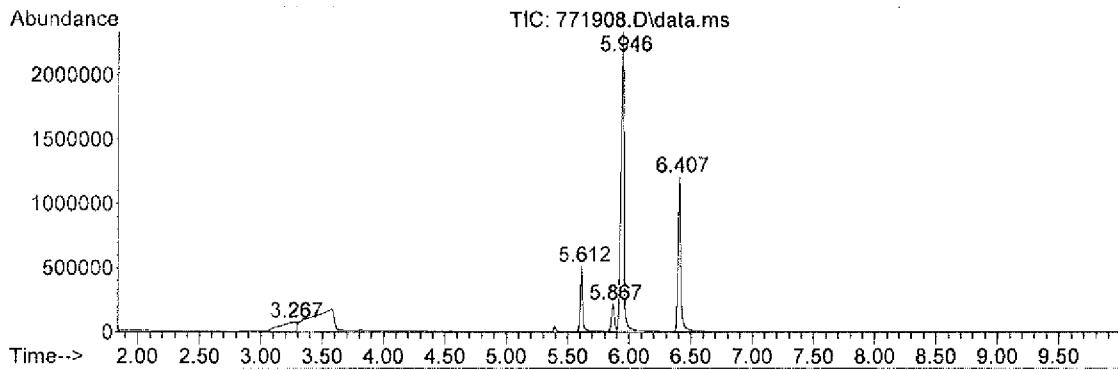
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L HEROIN	000561-27-3	99



Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771908.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 8
AcquisitionMeth: DRUGS.M
Integrator : RTE



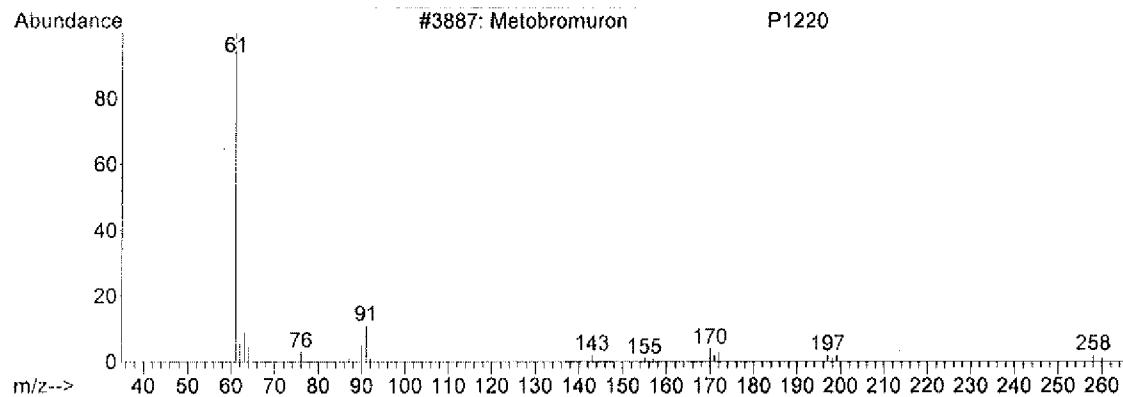
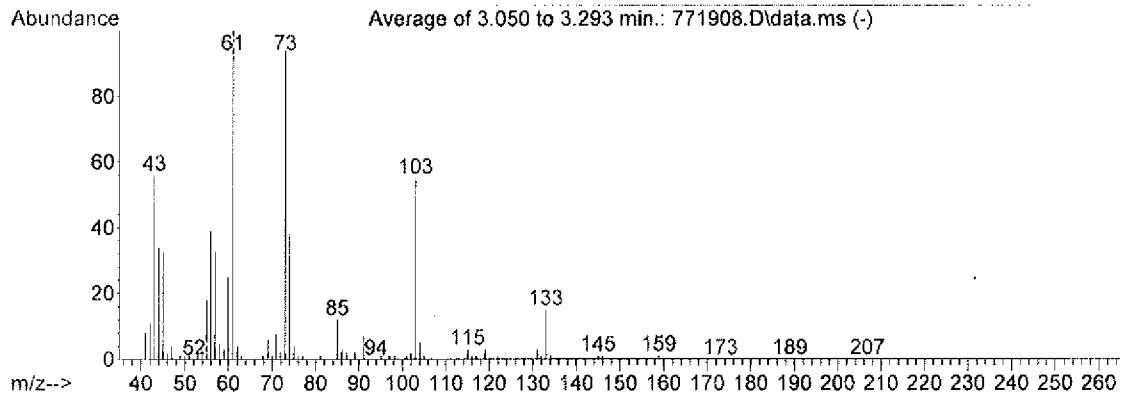
Ret. Time	Area	Area %	Ratio %
3.267	629037	8.12	15.08
5.612	699390	9.03	16.76
5.867	334629	4.32	8.02
5.946	4172296	53.88	100.00
6.407	1908470	24.65	45.74

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771908.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 8
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.27	C:\Database\PMW_TOX2.L		
		Metobromuron	003060-89-7	4
		Myristic acid	000544-63-8	2
		Monolinuron	001746-81-2	2

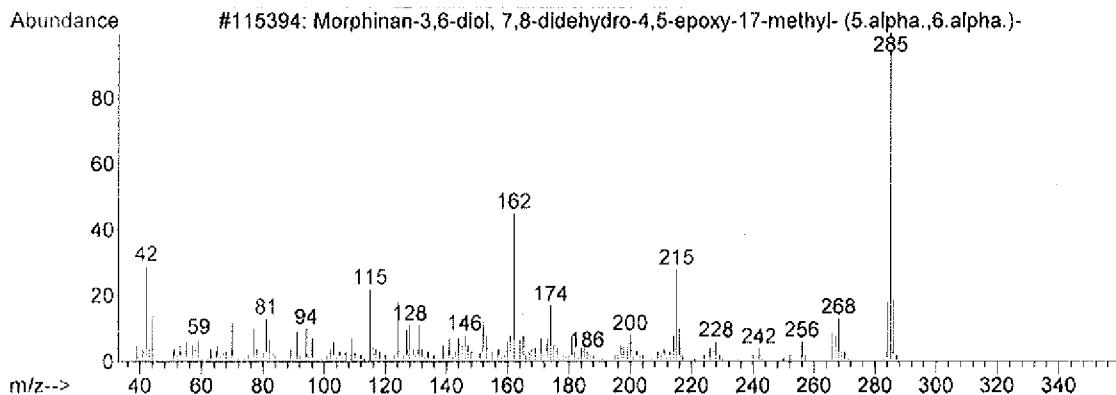
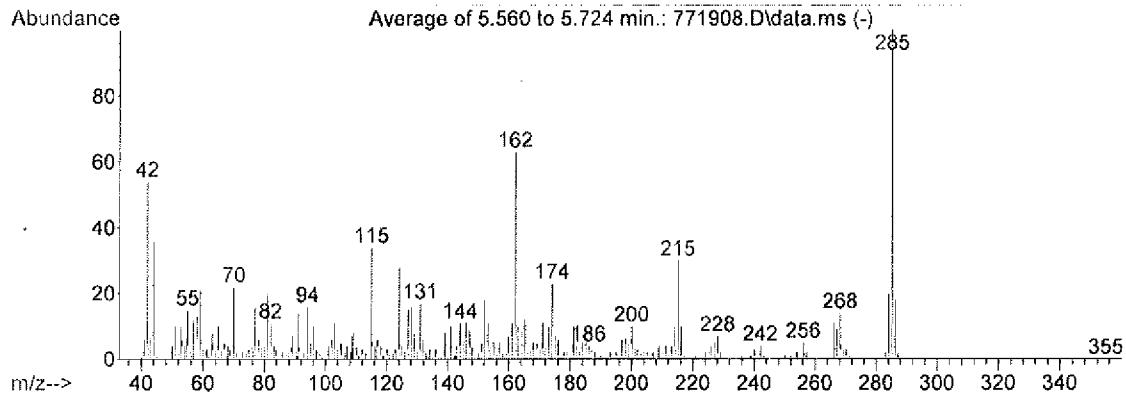


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771908.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 8
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

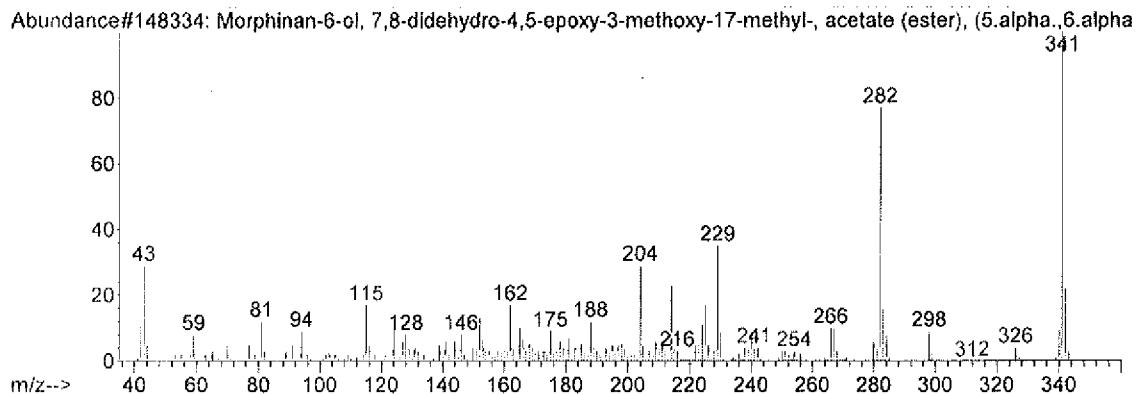
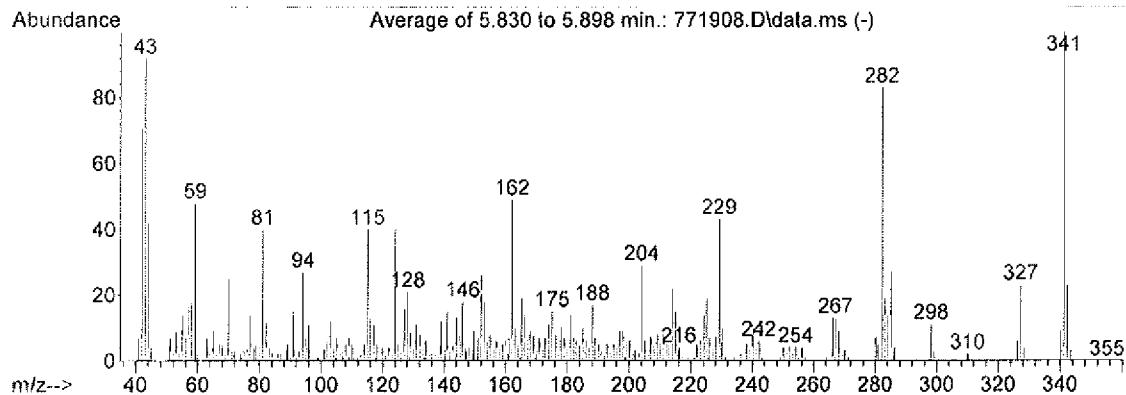


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771908.D
 Operator : KAC
 Date Acquired : 15 Feb 2011 10:16
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 8
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Acetylcodein	1000153-00-2	98

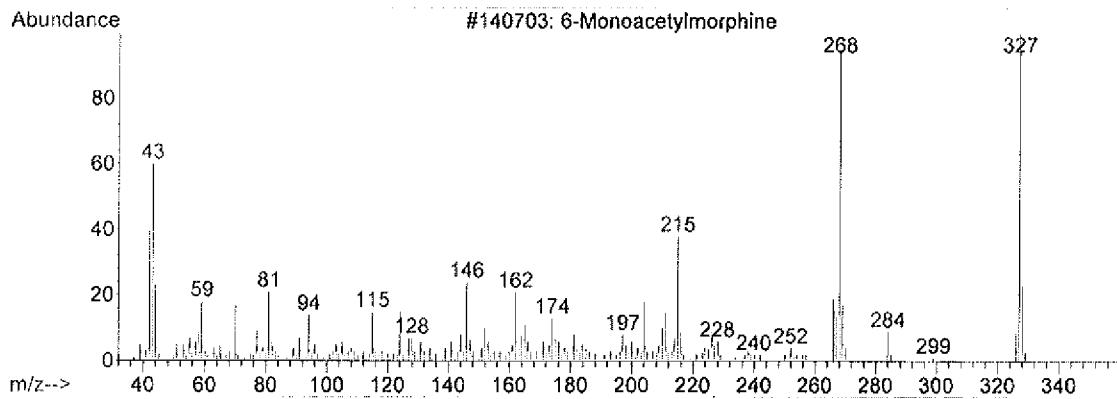
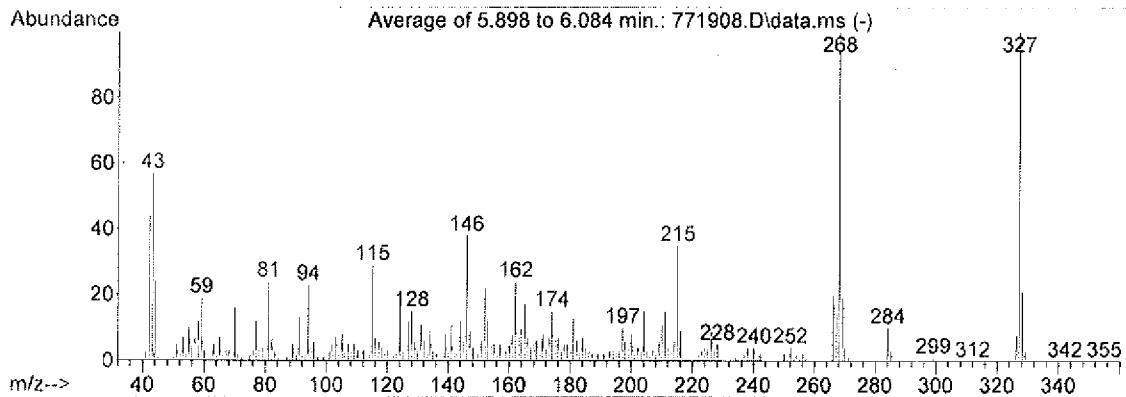


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771908.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 8
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

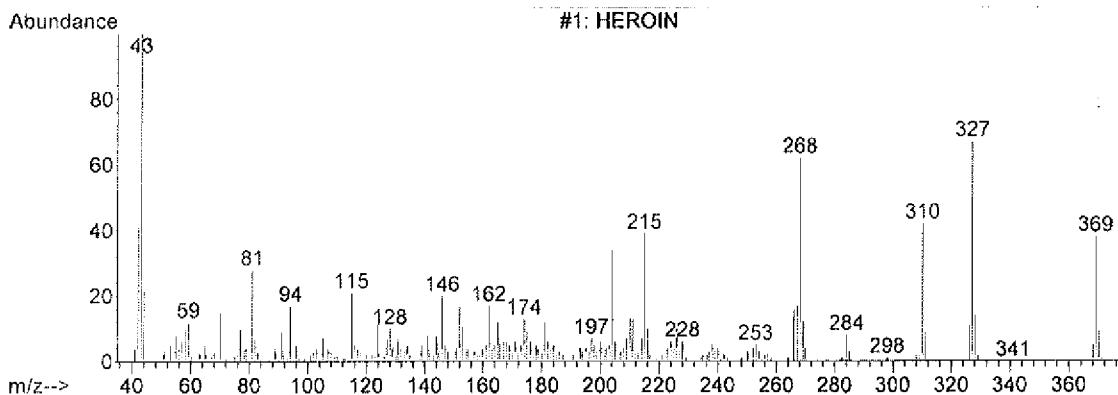
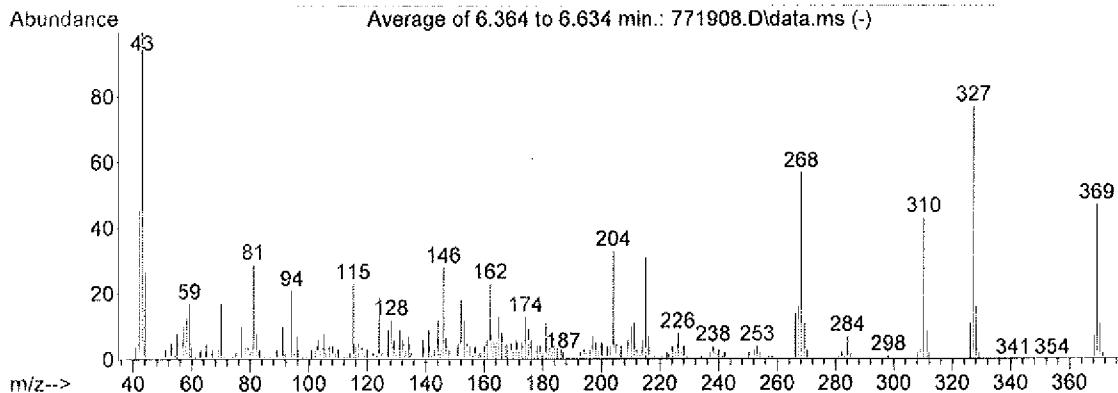


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771908.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:16
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 8
AcquisitionMeth: DRUGS.M
Integrator : RTE

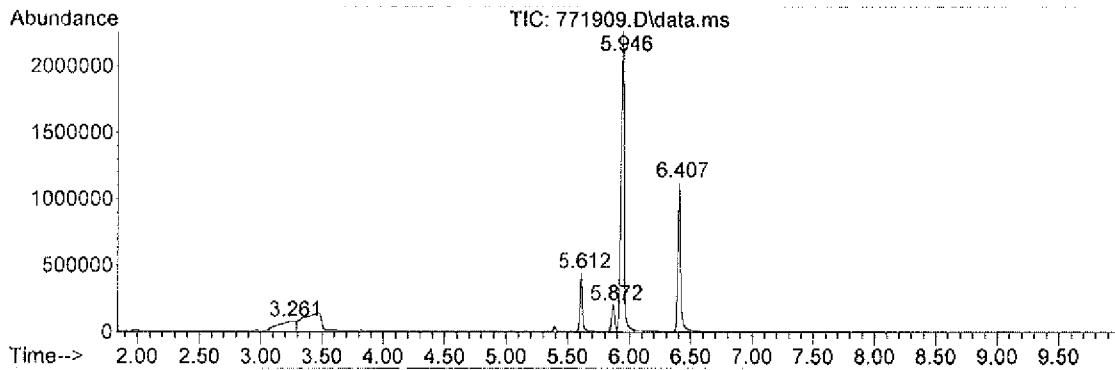
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2



Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771909.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:28
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE



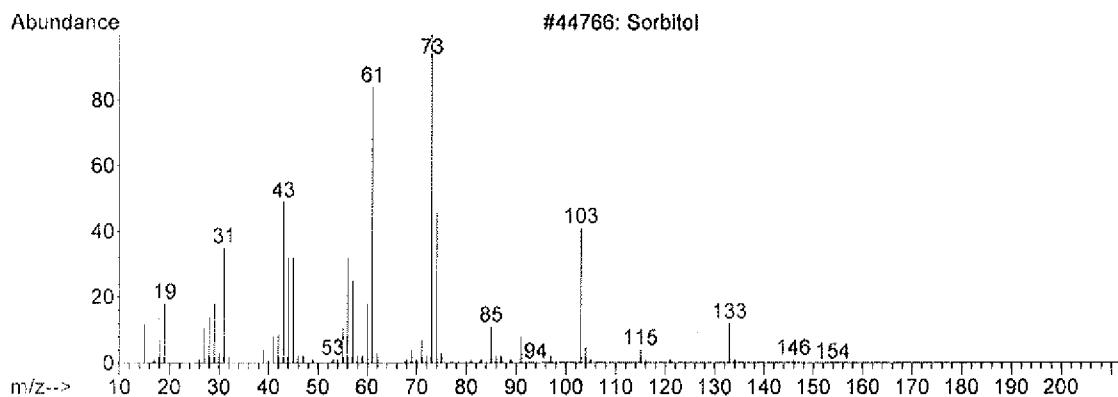
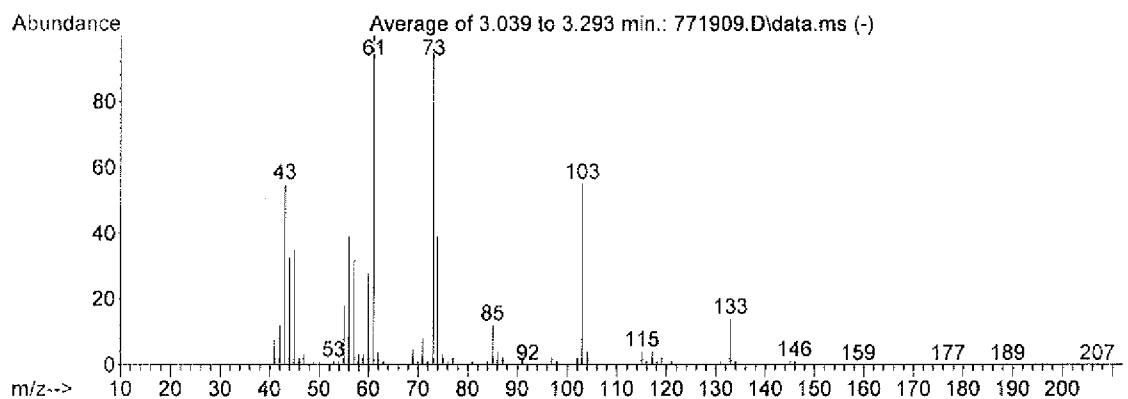
Ret. Time	Area	Area %	Ratio %
3.261	724023	9.61	18.01
5.613	634422	8.42	15.78
5.872	325760	4.32	8.10
5.946	4020959	53.36	100.00
6.407	1830160	24.29	45.52

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771909.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:28
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.26	C:\Database\NIST05a.L		
		Sorbitol	000050-70-4	87
		D-Mannitol	000069-65-8	78
		Sorbitol	000050-70-4	64

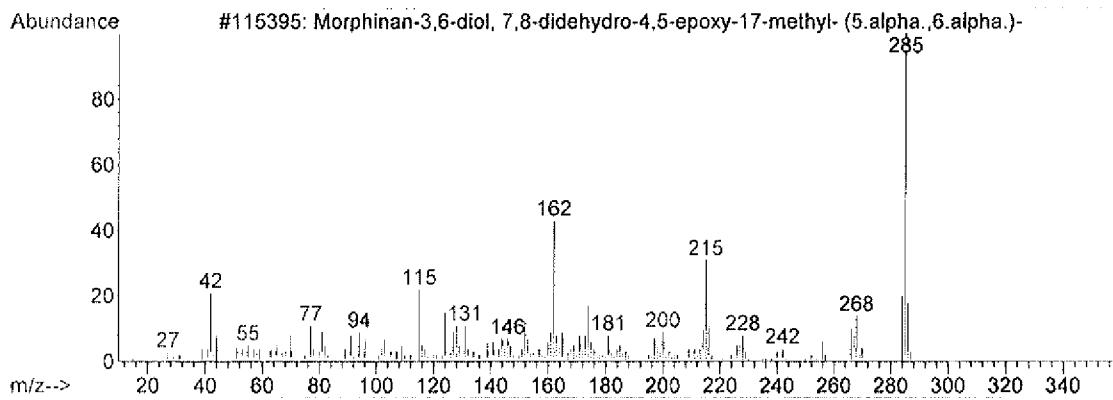
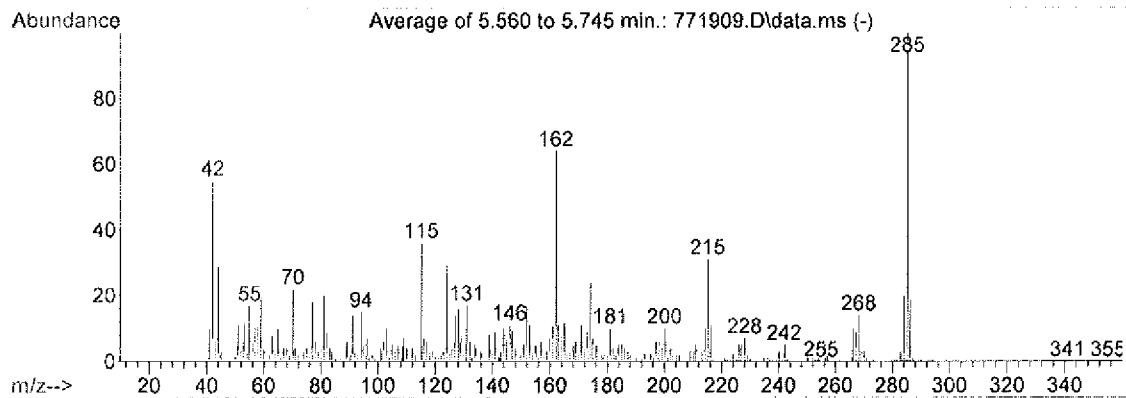


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771909.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:28
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

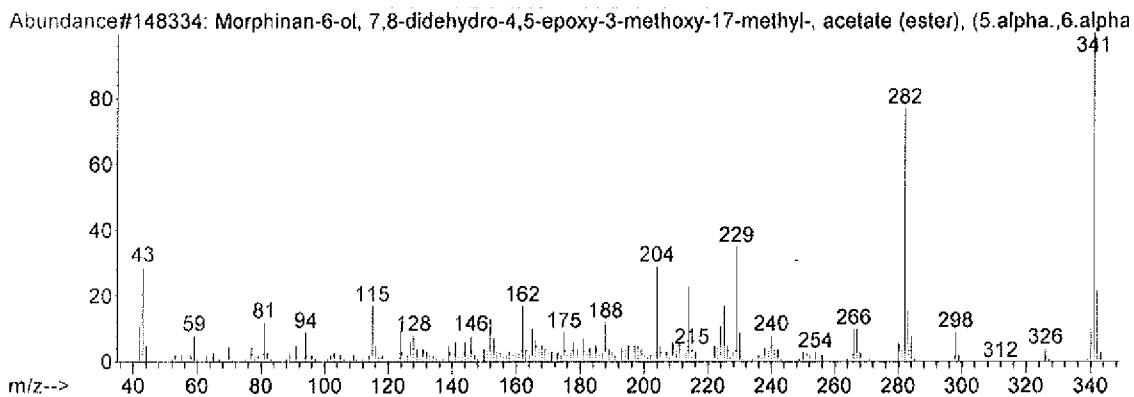
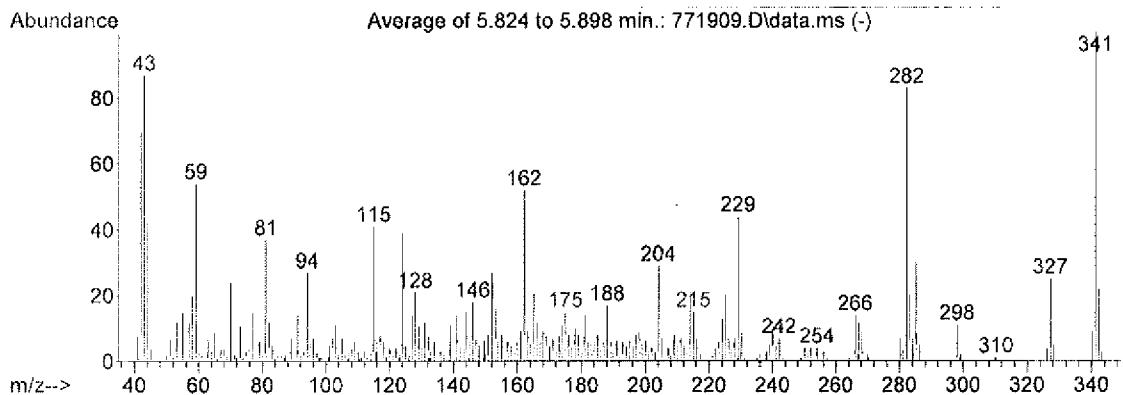


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771909.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:28
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Acetylcodein	1000153-00-2	95

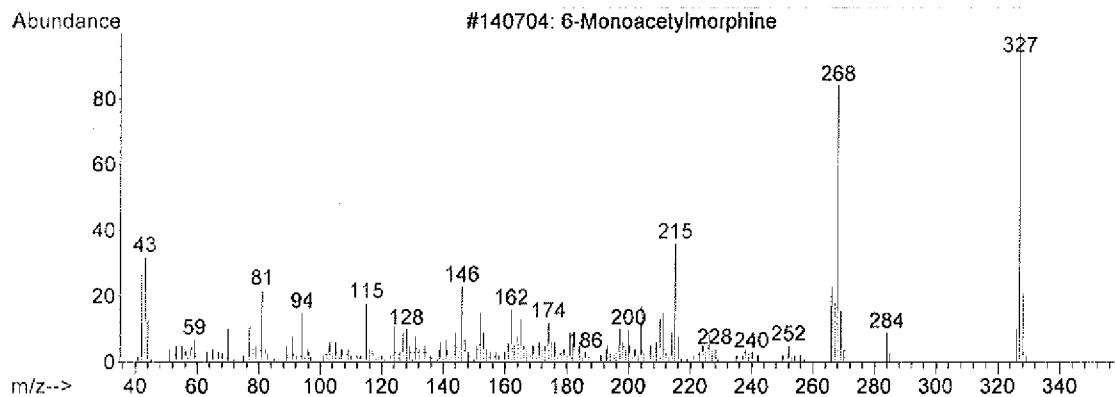
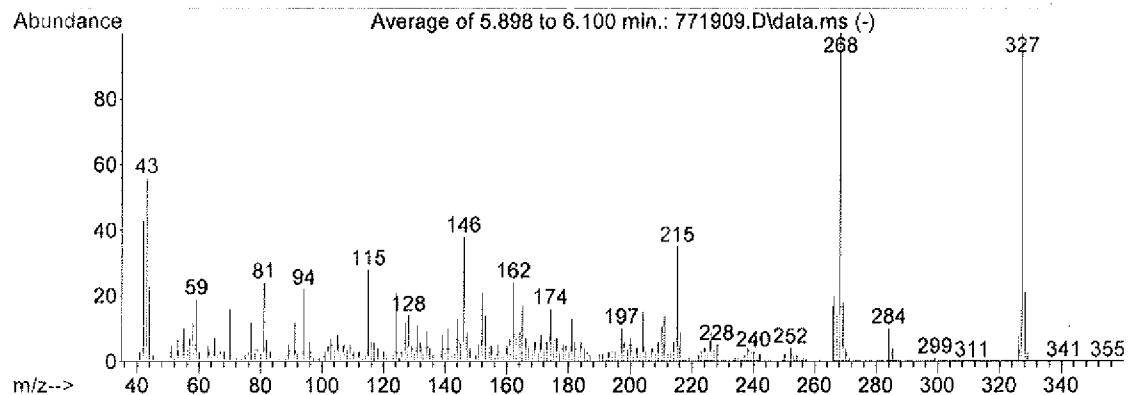


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771909.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:28
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

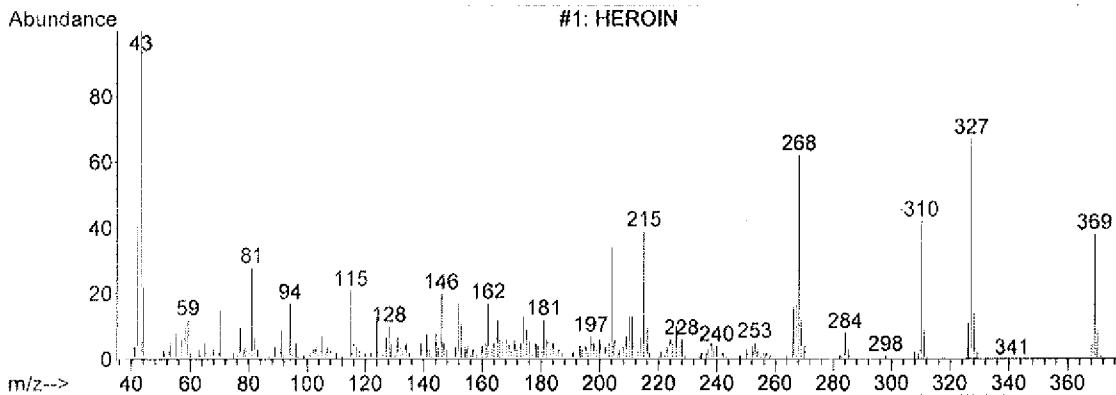
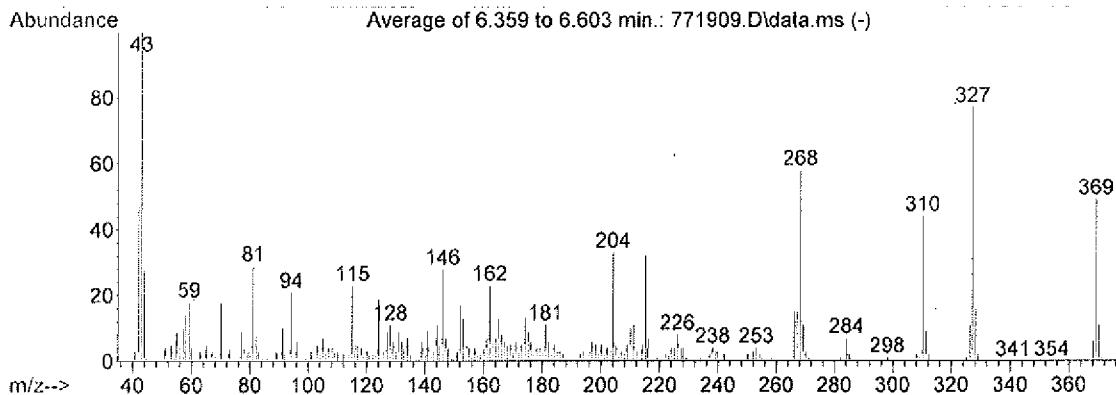


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771909.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:28
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

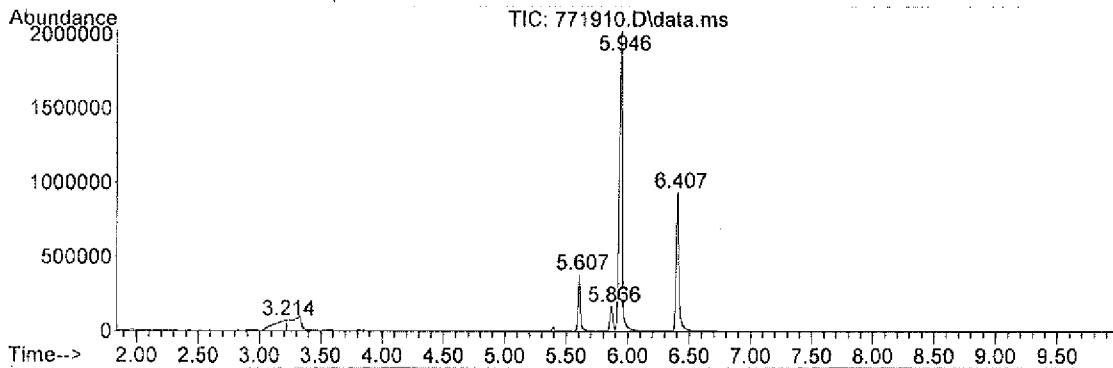
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2



Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771910.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:41
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 10
AcquisitionMeth: DRUGS.M
Integrator : RTE



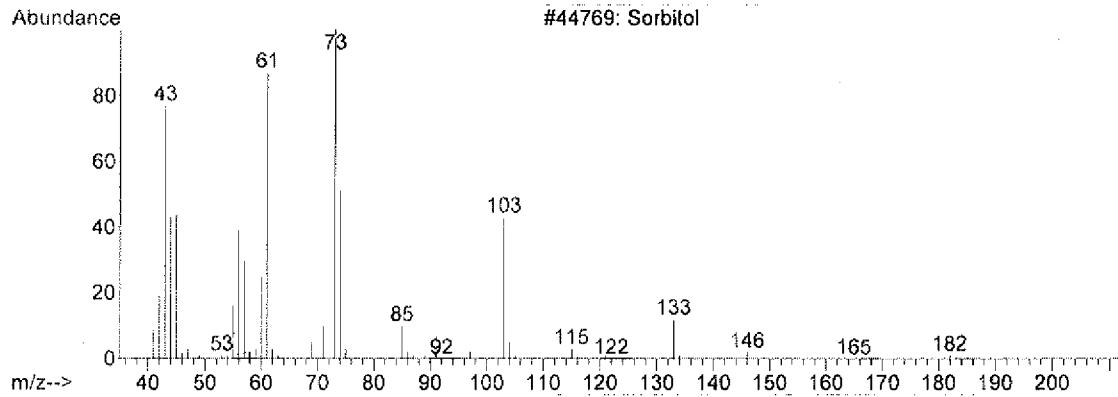
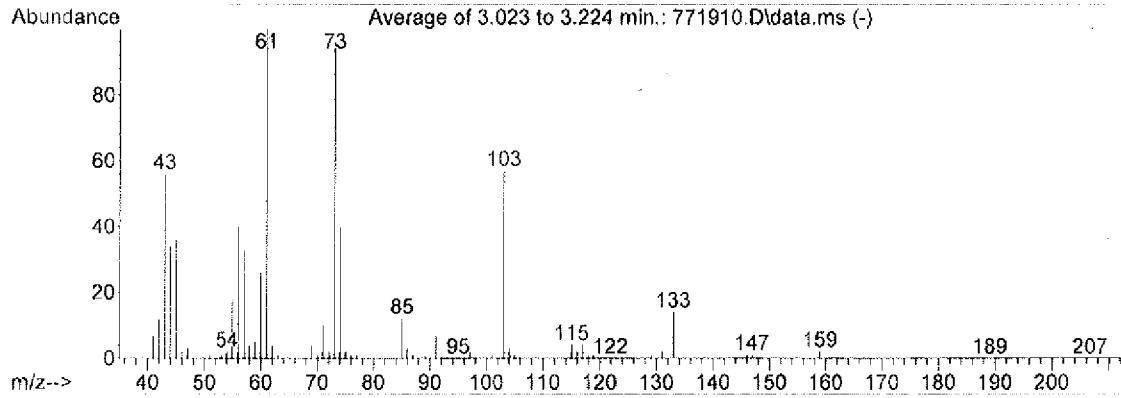
Ret. Time	Area	Area %	Ratio %
3.214	497068	7.96	14.52
5.607	526511	8.43	15.38
5.866	266490	4.27	7.79
5.946	3422257	54.80	100.00
6.407	1532774	24.54	44.79

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771910.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:41
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 10
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.21	C:\Database\NIST05a.L		
		Sorbitol	000050-70-4	80
		Sorbitol	000050-70-4	72
		Sorbitol	000050-70-4	72

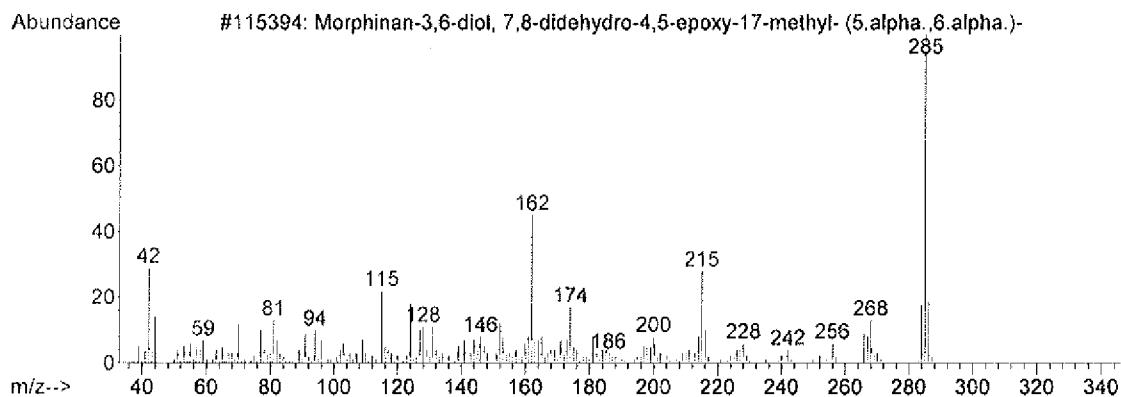
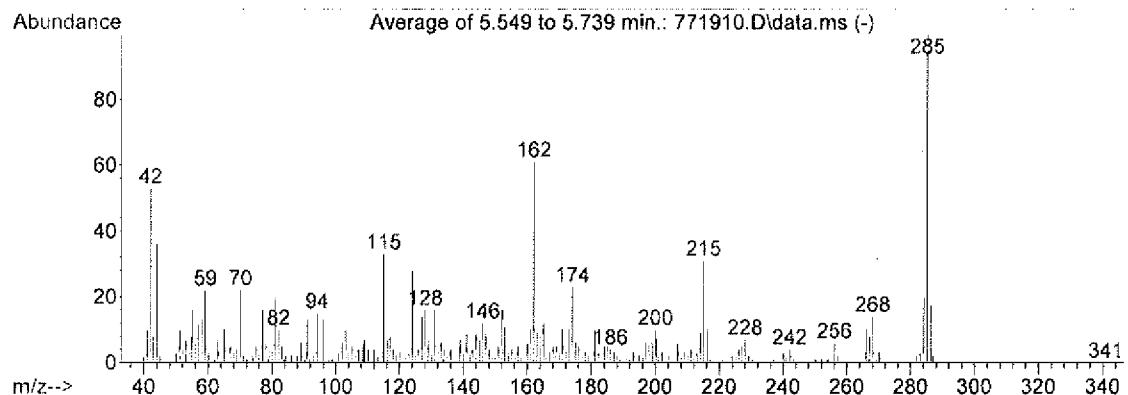


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771910.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:41
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 10
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

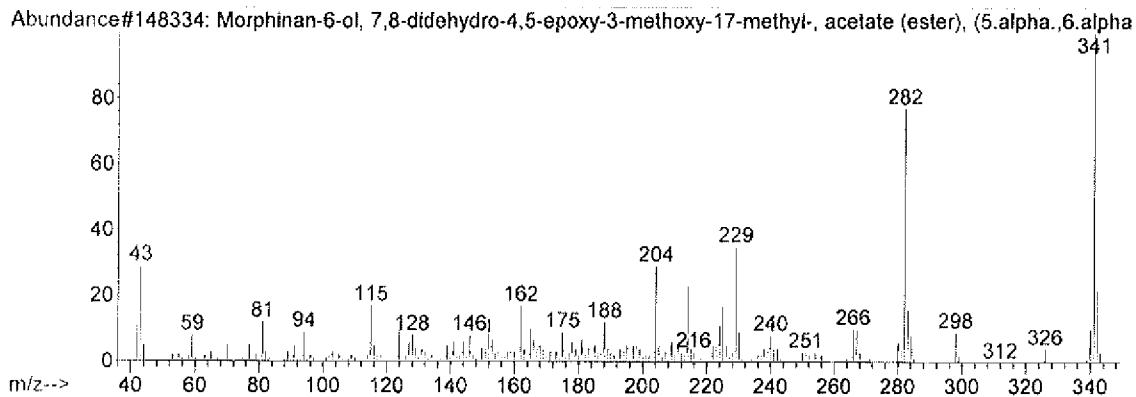
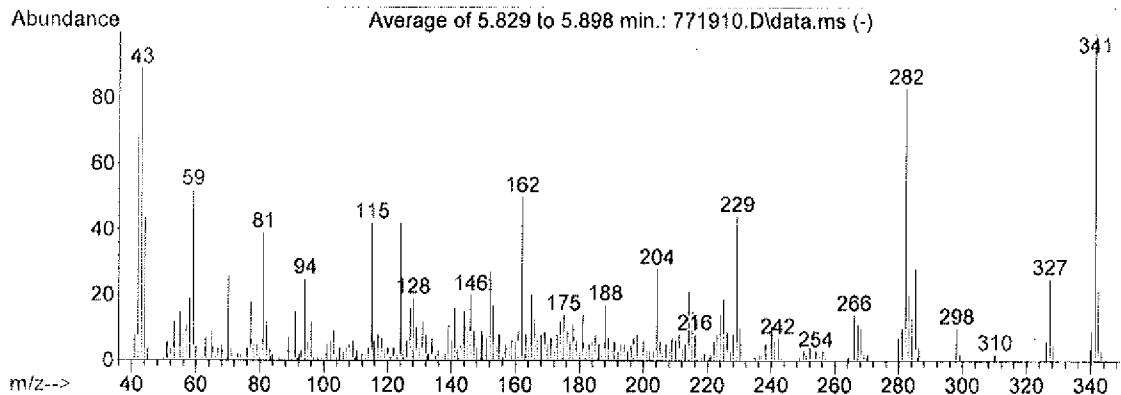


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771910.D
 Operator : KAC
 Date Acquired : 15 Feb 2011 10:41
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 10
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Acetylcodein	1000153-00-2	95

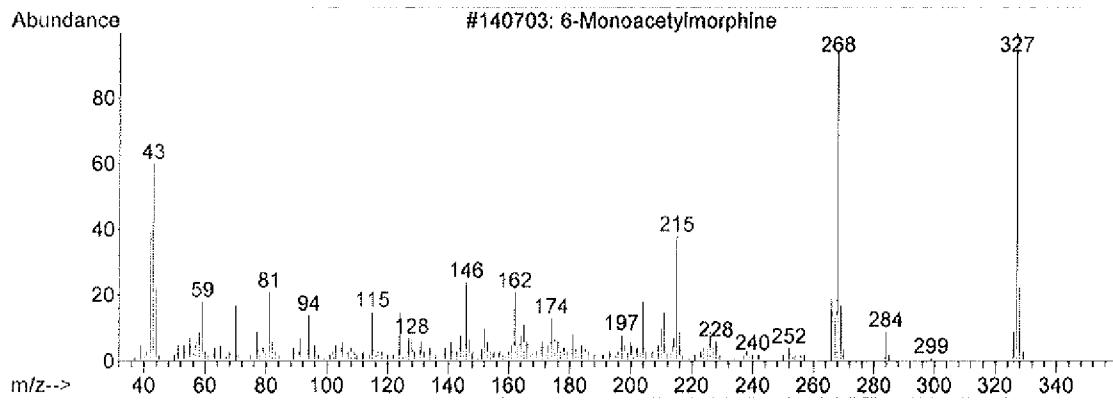
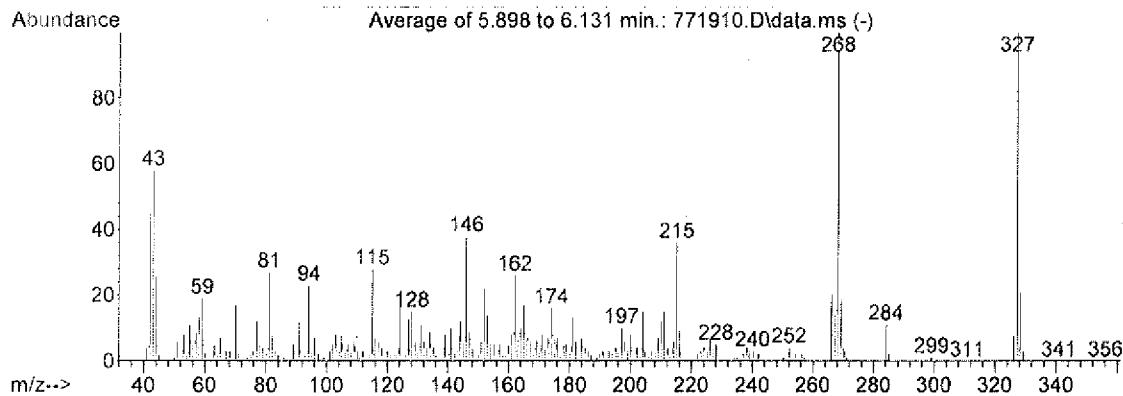


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771910.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:41
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 10
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

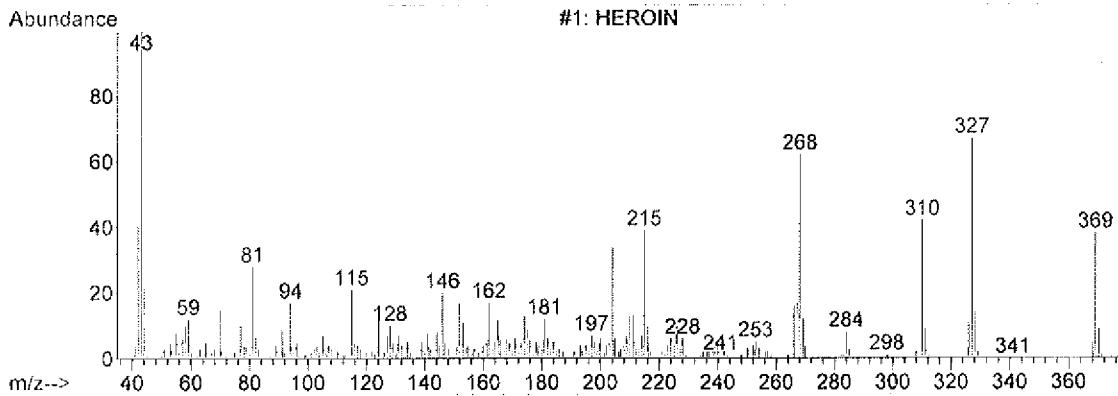
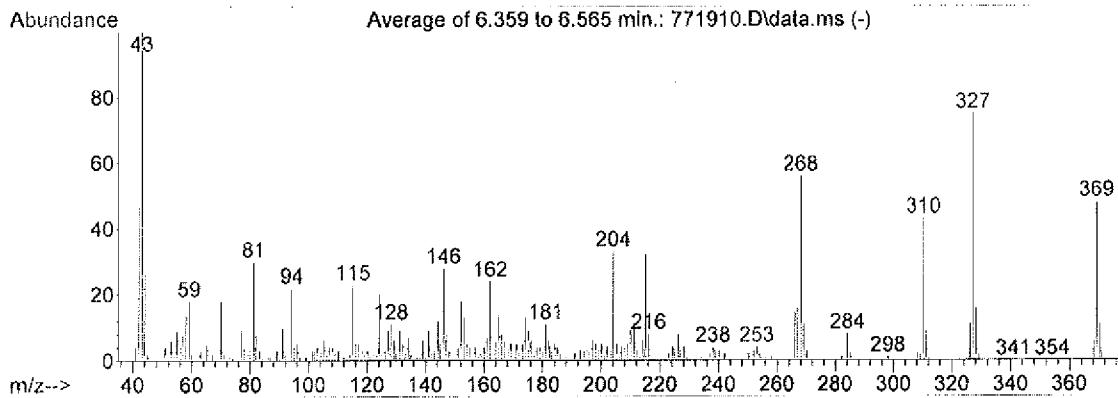


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771910.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:41
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 10
AcquisitionMeth: DRUGS.M
Integrator : RTE

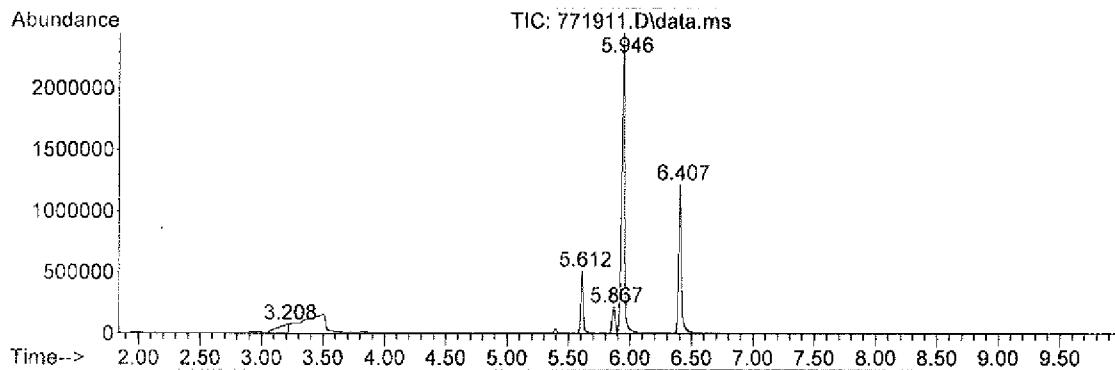
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2



Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771911.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:54
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 11
AcquisitionMeth: DRUGS.M
Integrator : RTE



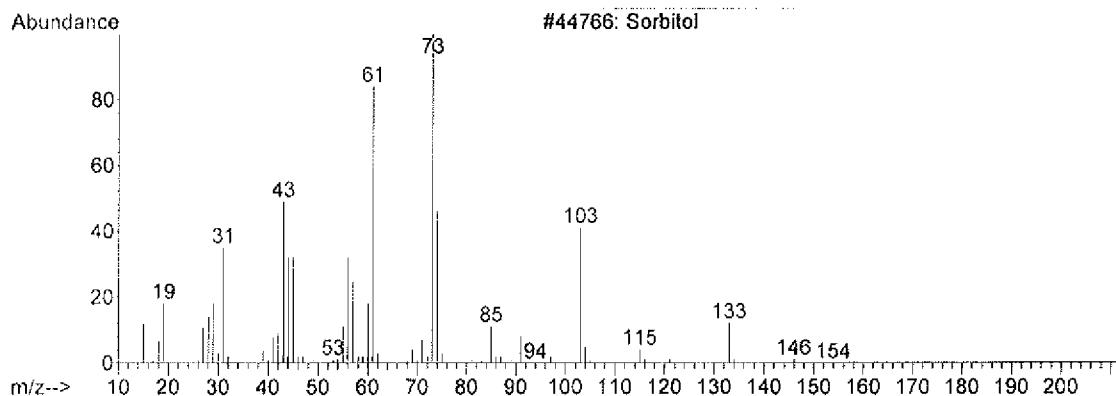
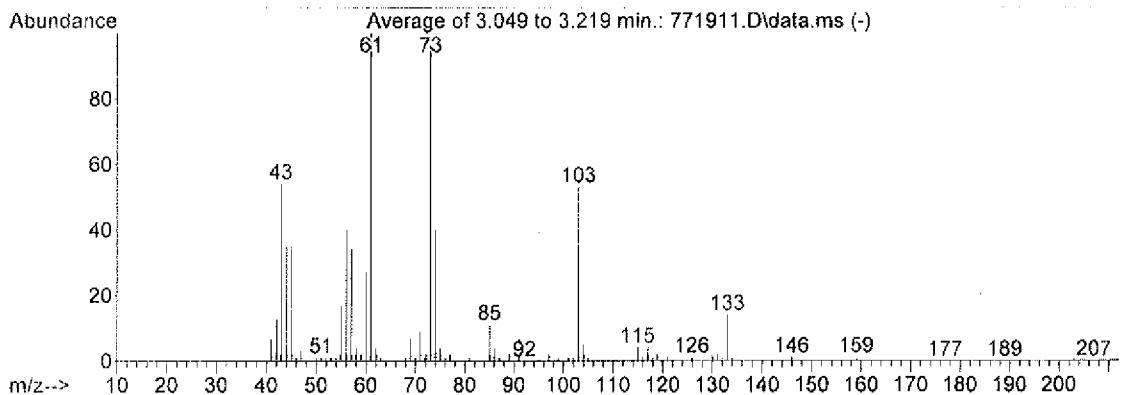
Ret. Time	Area	Area %	Ratio %
3.208	404964	5.32	9.62
5.612	713169	9.37	16.94
5.867	351629	4.62	8.35
5.946	4210108	55.33	100.00
6.407	1928628	25.35	45.81

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771911.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:54
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 11
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.21	C:\Database\NIST05a.L		
		Sorbitol	000050-70-4	87
		Sorbitol	000050-70-4	86
		D-Mannitol	000069-65-8	83

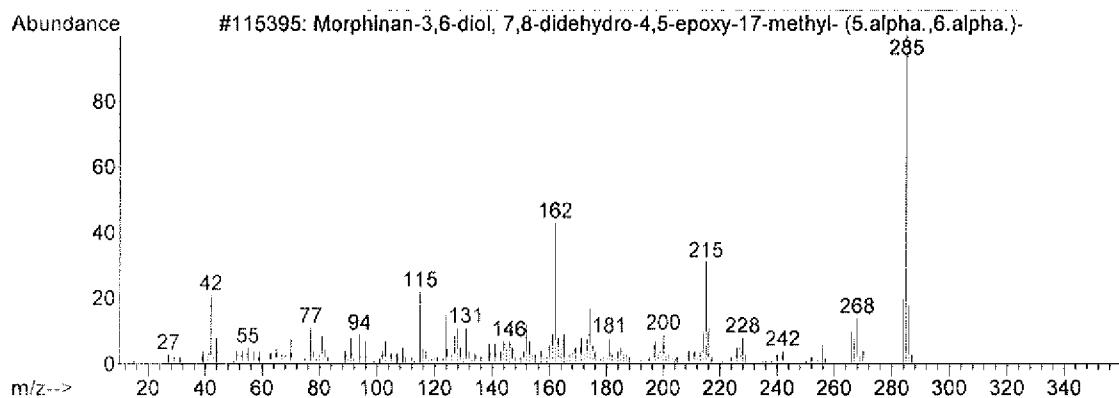
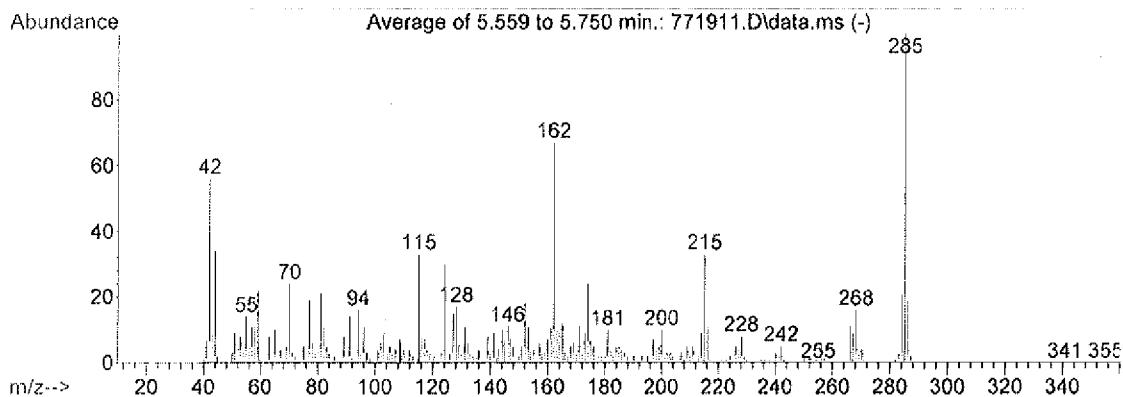


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771911.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:54
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 11
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

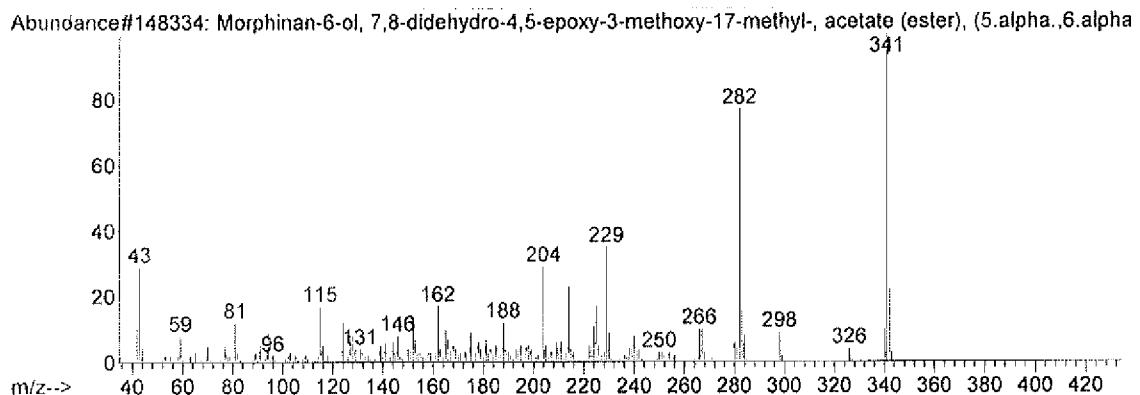
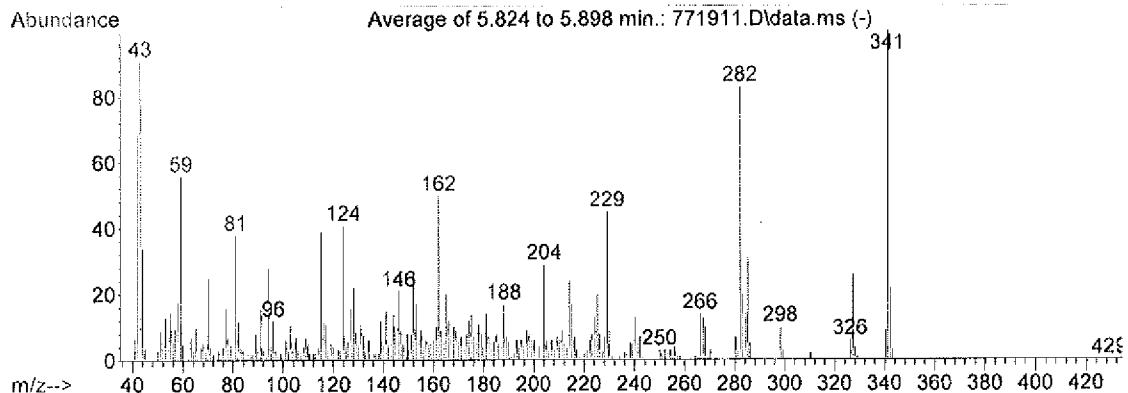


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771911.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:54
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 11
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	96
		Acetylcodein	1000153-00-2	95

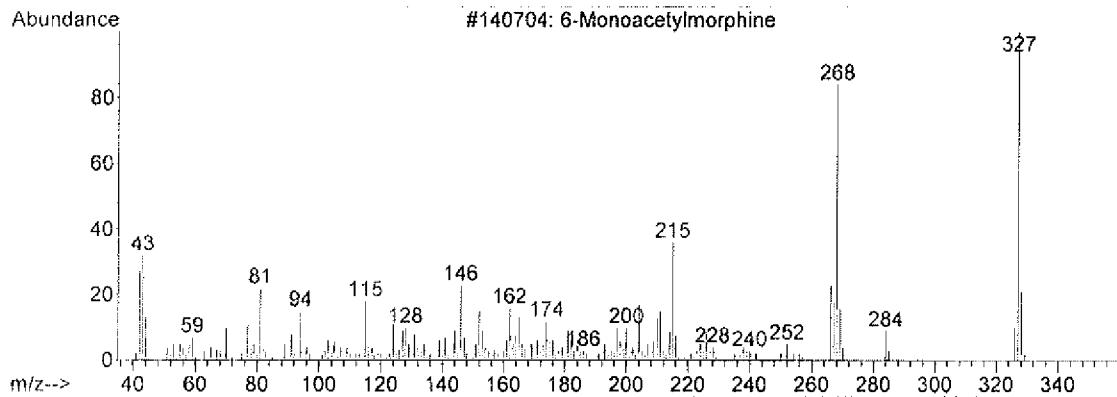
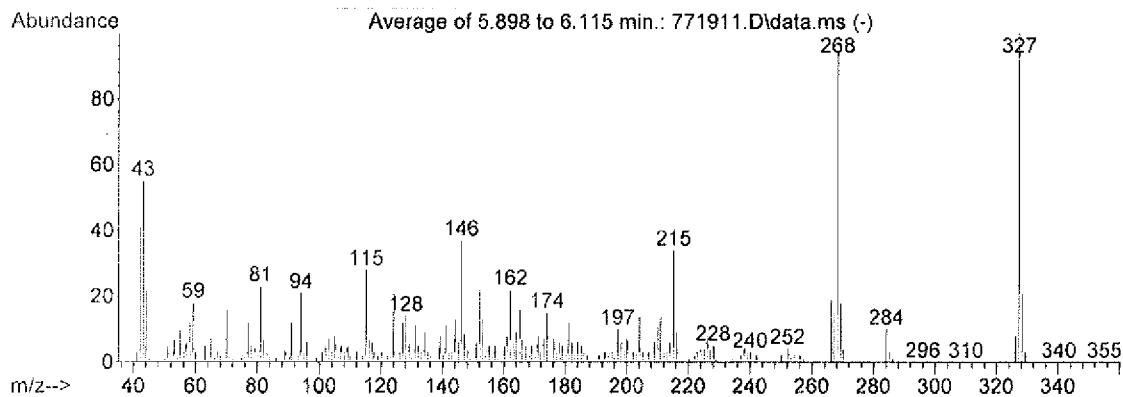


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771911.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:54
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 11
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

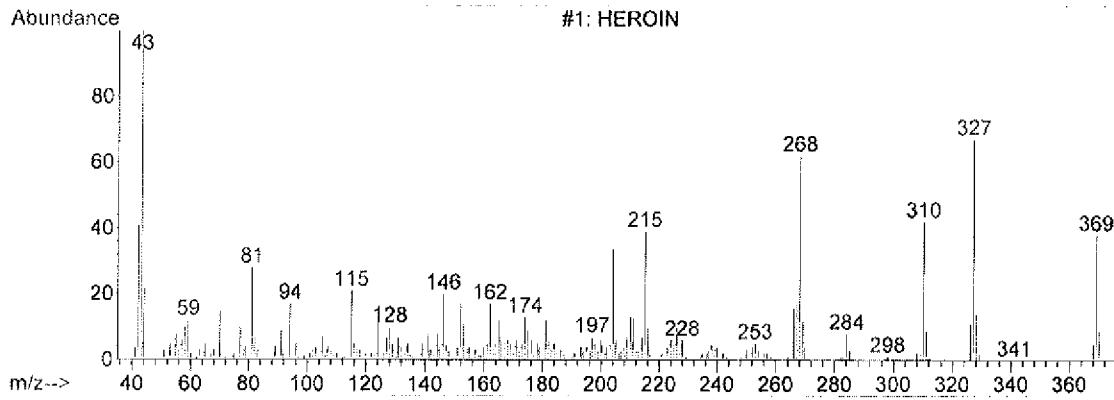
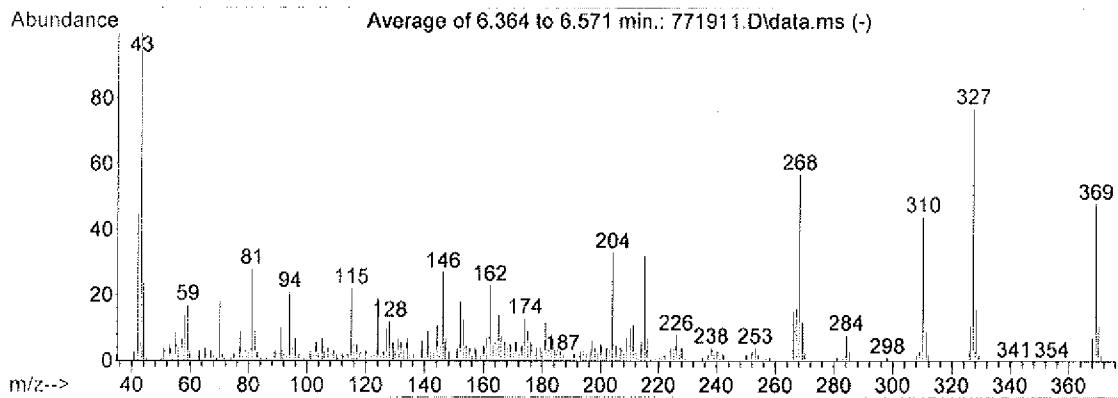


Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771911.D
Operator : KAC
Date Acquired : 15 Feb 2011 10:54
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 11
AcquisitionMeth: DRUGS.M
Integrator : RTE

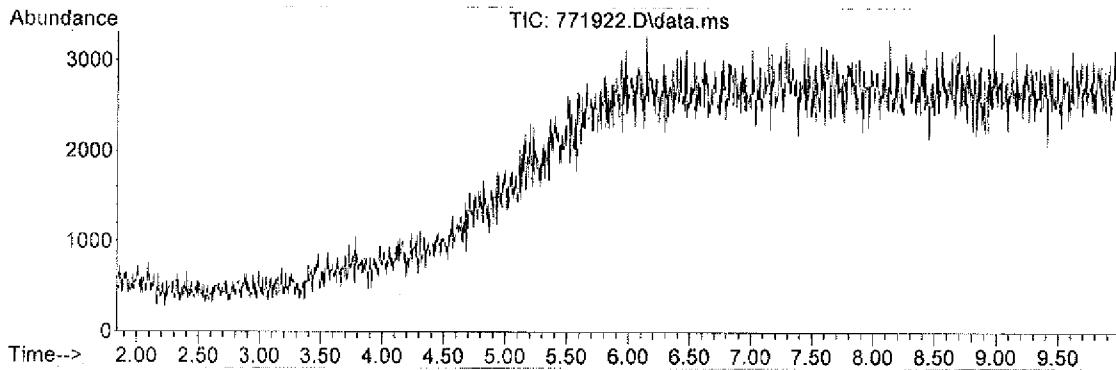
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2



Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771922.D
Operator : KAC
Date Acquired : 15 Feb 2011 13:12
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

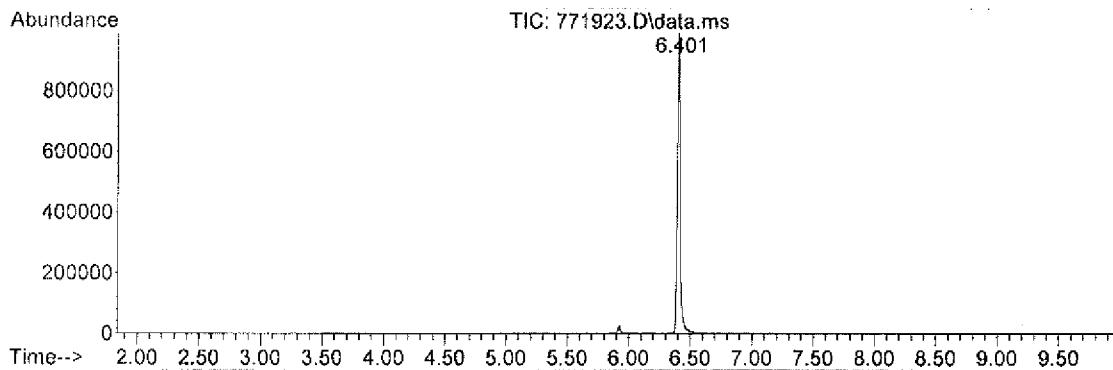


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771923.D
Operator : KAC
Date Acquired : 15 Feb 2011 13:25
Sample Name : HEROIN STD
Submitted by :
Vial Number : 23
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.401	1598308	100.00	100.00

Information from Data File:

File Name : F:\Q1-2011\System7\02_15_11\771923.D
Operator : KAC
Date Acquired : 15 Feb 2011 13:25
Sample Name : HEROIN STD
Submitted by :
Vial Number : 23
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.40	C:\Database\SLI.L HEROIN	000561-27-3	99

